CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS.
New York, October 21, 1909.

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CONSTRUCTION NEWS.

Plans and Specifications on File.

(* *denotes that this work is advertised in Engineering News.*)

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at office of The Engineering News Publishing Co., 220 Broadway, New York.

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12- 1*	Heating, ventilating, New Zealand ....(P. & S.)	9- 9
1-17*	Irrigation work, Porto Rico..(S.)	10-21
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RAILWAYS.

(* *denotes that this work is advertised in Engineering News.*)

ALASKA CENTRAL.—This railroad was sold at auction on Oct. 9 at Valdez, Alaska, for $600,000 to S. G. Jemmett, the only bidder, representing the interests that liquidated the defunct Sovereign Bank of Canada, which financed the road and held 95 per cent. of its bonds. According to press reports "this means that the road has passed under the control of an Eastern syndicate for which J. P. Morgan & Co. are agents. Morgan and his associates, who are building the Copper River & Northwestern Railroad from Cordova to the Bonanza Copper mountain, have 3,000 men at work on the latter road. George W. Perkins, Morgan's partner, inspected the Alaska Central last summer and arranged for the purchase. It is announced that the road, which extends from Seward to Turnagain Arm, 72 miles, will be extended to reach enormous coal fields. Some work will done this winter and construction contracts will be signed at once."

ALBERTA & GREAT WATERWAYS.—Surveys have been started on this line, which it is proposed to build from Edmonton, Alta., northeasterly to Fort McMurray, approximately 350 miles. It is expected the first contract for grading will be let this year. E. A. James is Gen. Mgr., Edmonton, Alta. Noted on Sept. 30.

CANADIAN NORTHERN.—This company is having surveys made for its proposed line which is to run northwesterly to the Brazeau River. M. H. McLeod is Gen. Mgr., Winnipeg.

The Canadian Northern Ry. Co. has applied to Parliament for authority to construct eleven new branch lines and for an extension of time on 14 lines in the west. The new lines proposed are from Dundee to the Winnipeg River; from Portage la Prairie southerly to township 2, range 7; from Hartley westerly to township 5, range 7; from Moose Jaw to Bienfait; from Davidson northwesterly to a point on the Saskatoon-Calgary line; from Lashburn westerly to a point between Camrose and Edmonton; from a point on the Saskatoon-Calgary line to the Rocky Mountain House; from a point on the Saskatoon-Calgary line near the crossing of the Red Deer River northwesterly to Yellowhead Pass; from Winnipegosis southerly to the south end of Lake Manitoba; from a point on the authorized Prince Albert to Battleford line to the Great Slave Lake; from the east end of Lake Manitoba, via the Narrows, to the Grand View and Roblin branch.

CANADIAN WESTERN.—Surveys have been completed for this line from Butte, Mont., to Calgary, Alta., and are now being made between Calgary and Edmonton, Alta., where it is expected connection will be made with the proposed Alberta & Great Waterways Ry., giving the Canadian Western Ry. an entrance to the far north.

ELIZABETHTOWN TERMINAL R. R.—Surveys are being made by this company, which was incorporated at Albany, N. Y., on Sept. 27, with a capital of $80,000 to operate by steam or other motive power a railroad eight miles long in Essex County, N. Y. The proposed road is to run from the Delaware & Hudson station at West Port to Elizabethtown. G. W. Jenkins is Pres., and V. R. Coon is Ch. Engr., at Elizabethtown, N. Y. Noted on Oct. 7.

ESQUIMALT & NANAIMO (Canadian Pacific).—This company is seeking an extension of time from the Dominion Government for the construction of its branch to Comox, with extensions. H. J. Cambre, Ch. Engr., Victoria, B. C.

FAIRCHILD & NORTHEASTERN.—An extension is under consideration to be built from Fairchild, Wis., to Brackett. N. C. Foster is Pres. and Gen. Mgr., Fairchild, Wis.

FERNWOOD & GULF.—Bids are being taken on a 7-mile extension to be built from Tylertown, Miss., easterly. F. B. Enochs is Gen. Mgr., Fernwood, Miss.

GLEN ROSE & WALNUT SPRINGS.—Incorporated in Texas, with $100,000 capital and office at Glen Rose, in Somervell County, Tex. The plans call for a line from Glen Rose south to Walnut Springs, in Bosque County, about 13 miles. The incorporators include T. K. Matthews, W. D. Morton, F. F. Johnson, J. Shields, J. Hipp and T. J. Bryan, of Glen Rose; J. C. Lees, J. F. Carlton and L. A. Rushing, of Walnut Springs. T. M. Simpson, Dallas, Tex., is Engr.

GRAND TRUNK PACIFIC.—O'BRIEN, FOWLER & McDOUGALL, Fort William, Ont., have received the contract for building a 200-mile section of this line in the vicinity of Nepigon, Ont.

GREENVILLE, GREENWOOD & AUGUSTA.—Company has organized and elected the following officers: Henry Briggs, Pres. and Treas.; J. P. Charles, Secy., of Greenville, S. C. Notice of incorporation, etc., was given last week.

HOLLIDAYSBURG & BEDFORD R. R.—See Pennsylvania R. R.

JOHNSTON, ALLEN & NORTHERN.—Company has been organized with $50,000 capital to build from Johnston, via Rushton Cross Roads to Fruit Hill, S. C., nine miles. The incorporators are Ben L. Allen and J. A. Allen, of Johnston, S. C.; H. M. Eidson and W. S. Allen, of Fruit Hill, S. C., and W. M. Hazel, of Spartanburg, S. C.

KAMLOOPS & YELLOWHEAD PASS.—This company is seeking an extension of time from the Dominion Government for the commencement of construction.

KANSAS NORTHWESTERN.—We are officially advised that capital is partly secured for first section of 30 miles (from Great Bend to Galatia, Kan.) As previously noted, this railway, when built, will extend from Wichita, Kan., northwest via Hutchinson, Great Bend, Hayes, Hill City, Oberlin and Atwood to Benkelman, Neb., about 330 miles. Capital for building balance of the railway will be secured soon. A preliminary contract for construction has been made. Right-of-way is partly secured and surveys partly made. E. W. Moses is Pres., Great Bend, Kan. There will be two or three steel bridges over the Arkansas, Smoky and Saline Rivers. W. R. Crumpton is Ch. Engr., at Great Bend, Kan.

McEWEN & BARRY and HARVEY & BONEFIELD, both of Fort William, Ont., have received sub-contracts on the line in the vicinity of Fort William, Ont.

MANITOBA & NORTHWESTERN (Canadian Pacific).—Company is seeking an extension of time from the Dominion Government for building its proposed line from Birtle to Russell, Man., a distance of 151 miles.

MONTREAL VALLEY.—Incorporated in Wisconsin, with $100,000 capital, to build a line from a point near Myers, in Iron County, Wis., northeast to Ontonagon, Ontonagon County, Mich., 70 miles, of which 1⅛ miles are to be in Wisconsin. The incorporators include M. A. Meyers, David H. Jack, Harry M. Jack, Thomas E. Lyons and William B. Perry.

NELSON RIVER R. R.—Under this name a Canadian syndicate is applying for incorporation with powers to build a railroad from a point on Lake Winnipeg, in Manitoba, near the mouth of the Nelson River, to a junction with the line to Fort Churchill, on Hudson's Bay, which is to be built by the Dominion Government. In addition, the charter applied for covers shipping, grain, storage, telephones, telegraphs, express, etc. R. A. Bonnar, Winnipeg, Man., is solicitor for the applicants.

OSAGE WESTERN.—Company has been chartered in Oklahoma to build a line from a point on the Missouri, Kansas & Texas Railway near the boundary of Osage and Washington Counties, thence through Osage, Kay, Noble or Grant Counties and Garfield County, connecting with either the Frisco or Rock Island Systems. It will be about 125 miles long. Capital, $1,000,000. The Directors are R. H. Hoss, L. A. Wismeyer and J. M. Moody, of Fairfax, Okla.; Fred Balduff, of Bliss, Okla., and C. E. Vandervoort, of Pawnee, Okla.

PENNSYLVANIA R. R.—Contract has been awarded to A. L. ANDERSON & BROS., of Altoona, Pa., for construction of the Hollidaysburg & Bedford R. R., a single-track connecting link between Altoona and Bedford, Pa., 15 miles.

SALISAW, McALESTER & SOUTHERN.—Incorporated in Oklahoma, with $100,000 capital. Headquarters will be at McAlester, Okla. The railroad will run from Salisaw, Okla., southwest via Sequoyah, Haskell, Latimer and Pittsburg Counties, to McAlester, thence south via Atoka, Pushmataha and Chotaw Counties, to a point in Bryan County, about 190 miles in length, with a number of branches. The estimated cost of the line is $3,000,000. The Directors include J. E. Cavanaugh, M. J. Smith, W. H. Fuller, W. P. Freeman and A. B. Ringland, all of McAlester.

SHAW & SOUTHWESTERN.—We are officially informed that contracts will be let this fall for building this railway from Shaw, Miss., southwest to Greenville, Miss., via Busey, 28 miles. Surveys are now being made. Capital and right-of-way are secured. J. C. Walker, Shaw, Miss., is Pres. Steve Archer, Jr., Greenville, Miss., is Engr.

WESTERN MARYLAND.—See item under Buildings—Hagerstown, Md.

ELECTRIC RAILWAYS.

NEW YORK, N. Y.—Preliminary approval has been given to tentative sketches submitted by Henry B. Seaman, Ch. Engr. of the Public Service Commission, for elevated structures for rapid transit lines in greater New York, to be built of steel, with reinforced concrete roadbed and crushed stone ballast, at an estimated cost of about $1,000,000 a mile. According to the New York "Tribune," Wm. R. Willcox, Chn. of the Public Service Commission, has notified the Municipal Art Commission of New York, that "the commission is preparing plans for the construction of several rapid transit lines. In the main these lines will be underground, but it is impracticable to build these as subways throughout their entire length. Elevated roads are planned for River and Jerome Aves., Westchester Ave., between Whitlock Ave. and Pelham Bay Park, The Bronx, and 86th St. and Stillwell Ave., between Coney Island Ave. and about Bay 35th St., Brooklyn. One of the principal reasons why elevated roads are proposed in these districts is that the smaller cost of elevated roads as compared with subways will permit these lines to be built at once. With the assistance of Arnold W. Brunner, of the Municipal Art Commission, for which we are greatly indebted, our chief engineer has worked out plans which we consider in every way to be an improvement upon all others."

FLUSHING (L. I.), N. Y.—Maps and profiles for the first trolley line from Flushing through Whitestone to the central north shore sections of the Borough of Queens have been approved by the city and working permits have been issued to the New York & North Shore Traction Co., which has commenced construction work. Estimated cost of laying seven miles of track is $1,250,000. Geo. B. Thomas is Gen. Mgr. and Pur. Agt., Roslyn, N. Y. (This company is the successor to the Mineola, Roslyn & Port Washington Traction Co.)

PITTSBURG, PA.—The West Penn Rys. Co. will extend its railway from Hempfield to Mill Grove, West Newton, Gratztown, Sutervilie and Blythesdale, a distance of 15 miles; from Dunbar Township to Uniontown, a distance of nine miles, and about Uniontown for three miles distant, a total of 27 miles. J. L. Fritsch is Ch. Engr., Connellsville, Pa.

LEBANON, PA.—The City Council has granted a franchise to the Ephrata & Lebanon St. Ry. Co. The company will construct a 22-mile railway from Ephrata to Lebanon, via Lincoln, Clay, Hopeland, Kleinfeltersville, Schaefferstown, Reistville and Iowa. We are officially advised that preliminary surveys are made and right-of-way secured. Work will be done by company's forces. S. D. Erb, Ephrata, Pa., is Pres.; F. H. Shaw is Ch. Engr., Lancaster, Pa. Noted on Sept. 23.

SLIPPERY ROCK, PA.—The Slippery Rock & Grove City St. Ry. Co. has been incorporated to build an electric railway from Slippery Rock to Grove City, connecting with the Buffalo & Lake Erie Railroad, a distance of nine miles. Capital stock, $55,000. Incorporators: John P. Barr, Grove City, Pres.; W. Henry Wilson, James A. Jolliffe, S. L. McClure and J. H. Pizor, of Slippery Rock; C. S. Shrubb, John Carruthers, T. M. Martin and W. M. Graham, of Grove City.

HANOVER, PA.—The Hanover & Warrior Run Street Ry. Co. has been incorporated to build an electric railway from Hanover, through Wilkes Barre to Warrior Run, six miles. Capital stock, $100,000. Incorporators: J. R. Scouton, Wilkes Barre, Pres.; L. F. Camp, H. H. Davenport and M. T. Rees.

FAIRMONT, W. VA.—Contract has beeen awarded by the Fairmont & Northern Traction Co. for the building of its street car line from Fairmont to Fairview, or Amos, Marion County, to TALBOTT BROS., of Fairmont. The line will be built from Fairview to Federal first, and the route then will be decided upon from Federal into Fairmont. Noted on Sept. 23.

ANDERSON, S. C.—The property of the Anderson Traction Co. was sold last week for $154,750, the purchaser being E. W. Robertson, of Columbia, S. C., one of the receivers. The sale was made under the order of Judge Pritchard of the Federal Court to satisfy a claim of the International Trust Co., of Baltimore.

MACON, GA.—The County Commissioners have granted a 50-year franchise to the Macon Traction Co. to build an electric railway from East Macon to Recreation Club, five miles. The charter includes the right to operate electric plants also steam heating plants. Capital stock, $150,000, of which amount $140,000 will be preferred stock. Incorporators: Frederick Kauffmann, Jesse B. Hart, C. C. Foor, H. V. Napier, Jr., Roland Ellis, N. J. Ethridge, H. M. Smith, L. S. Dure, J. F. Hart and J. J. Quinlan, of Macon.

WESTMORELAND, TENN.—The BRIGHT BROS. CONSTRUCTION CO., Nashville, Tenn., has contract for building the Westmoreland & Red Boiling Springs R. R. Preliminary survey has been completed and right-of-way is being secured for this line, which will extend from Westmoreland via Lafayette to Red Boiling Springs, Tenn., 36 miles distant, and later into Kentucky, to connect with the Queen & Crescent Route. W. A. Smith is Pres.; E. K. Lamb, Secy.; Albert Dean, Treas.; A. J. Bright, Ch. Engr., Lafayette, Tenn.

COLUMBUS, OHIO.—The Columbus & Cincinnati Air Line Traction Co. has awarded contract, it is stated, to the RIGGS & SHERMAN CO., Nasby Bldg., Toledo, for preliminary engineering work for its proposed line. This company was recently incorporated to build an electric railway between Columbus and Cincinnati, via Washington Court-House and Wilmington. Capital stock, $10,000. Incorporators: Frank E. Ruth, E. B. Thompkins, Randolph W. Walton, W. L. McVey and M. B. Recob, of Columbus.

NEW ALBANY, IND.—The Louisville, Blue River & French Lick Traction Co. has been incorporated to construct an electric railway to connect New Albany, Mooresville, Galena, Greenville, Palmyra, Fredericksburg, Hardinsburg, Chambersburg, Paoli, West Baden and French Lick. Headquarters, New Albany. Capital stock, $10,000, preliminary. Incorporators are Jacob H. Fawcett, Charles D. Kelso and Walter A. Gadient.

DELPHI, IND.—The Delphi, Flora & Burlington Traction Co. has been incorporated to construct an electric railway from Delphi to Burlington, via Flora, 24 miles distant. Headquarters, Delphi. Capital stock, $125,000. E. W. Bowers is Pres.; J. C. Smock, Secy.

UVALDE, TEX.—The Uvalde St. Ry. Co. plans the construction of a 25-mile line from Uvalde southeast to Batesville. M. M. McFarland is Gen. Mgr., at Uvalde.

DALHART, TEX.—W. J. Blair and associates have been granted an electric street railway franchise. One mile is to be built in twelve months, from Rock Island St. to the Fair Grounds.

PARIS, TEX.—The Texas Union Traction Co. holds a charter, to construct a number of electric railways in Texas, among which are the following: From Paris to Ennis, a distance of 124 miles; from Texarkana to Sherman, 154 miles; from Texarkana to Fort Worth, 215 miles; from Paris to Cleburne, 155 miles. It also has the right to build extensions from any city along any of the proposed lines into the country, a distance of 20 miles from the main line. Company probably will build one of these spurs first; this proposed spur is to extend from Paris through Deport to some other small town in that vicinity. C. P. Moore, Longfellow, Tex., is Pres.; A. A. St. John, Vice-Pres.; John T. Upchurch, Clarksville, Secy. and Treas.

MANGUM, OKLA.—Surveys are being made by the Southwestern Interurban R. R. Co. and will soon be ready for a report for the electric railway which is to connect Mangum, Granite, Altus, Blair, Hollis, Vinson, Reed and Cordell, 22 miles. J. W. Solomon, of Reed, Okla., is Pres.; H. M. Ferguson, Mangum, is Vice-Pres., and J. C. McCollister, Secy.

SAPULPA, OKLA.—Mid-Continental Traction Co. has been incorporated in Oklahoma with $100,000 capital and offices at Tulsa and Sapulpa. The plans call for a line from Miami, Okla., southwest through Ottawa, Craig, Nowata, Rogers, Washington, Tulsa, Creek, Okfuskee, Lincoln and Pottawatamie Counties to Shawnee, 200 miles. The estimated cost of the line is $4,000,000. There are 16 miles now under construction, to be completed within six months, connecting Tulsa, Taneha, Sapulpa and the oil fields. Graham Burnham is Pres. and Gen. Mgr.; J. Robert Burnham, Vice-Pres. and Engr., both at Tulsa, Okla.; L. J. Weatherwax, Secy., Sapulpa, Okla.; F. O. Brown, Treas., Red Fork, Okla.

ALBUQUERQUE, N. MEX.—M. P. Stamm and associates have been granted a 50-year franchise to construct a 2-mile electric railway in Albuquerque, and a 25-year franchise to furnish power for lighting, etc.

DAYTON, WASH.—K. S. Keating, Engr., of Walla Walla, Wash., has completed survey for the Spokane, Walla Walla & Weston Traction Co.'s line. It will run from Dayton to Wallula, via Waitsb urg and Walla Walla.

VANCOUVER, WASH.—The Clark County Ry. Co. has been incorporated to build electric railways in Clark County. Headquarters, Vancouver. Capital stock, $150,000. Incorporators: Bert Yates, J. W. Sifton and O. C. Spencer. Directors: Jas. G. Kidwell, Walla Walla; J. H. Murphy, A. Welch, C. E. Moulton and O. C. Spencer.

SEATTLE, WASH.—The Lake Washington Elec. Ry. Co. plans to commence construction work within a few months on its railway in Seattle. The railway will be operated by electricity, which will be purchased. Capital stock, $50,000. J. R. McLaughlin, 1108 American Bank Bldg., Seattle, is Pres.; F. F. Mead, Vice-Pres., and Paul C. Murphy, Treas., 505 American Bank Bldg., and E. T. Clark, Secy., 1108 American Bank Bldg., Seattle.

MARSHFIELD, ORE.—The Coos Bay, Oregon & Idaho Ry. Co. is now making surveys for its proposed line, to be operated by steam or other motive power, from North Bend and Marshfield, Ore., to Boise, Idaho. P. Hennessey, Marshfield, is Pres. and Gen. Mgr.; Wm. Grimes, Marshfield, Vice-Pres.; J. R. Smith, North Bend, Secy.; J. V. Pugh, North Bend, Treas., and F. A. Haines, Marshfield, Ch. Engr.

The Coos Bay & Inland R. R. Co., which was recently incorporated to build an electric railway from Roseburg to Marshfield and Coos Bay, has organized with Jacob Haas, Pres.; Chas. Ringler, Secy. and Treas., and Frederick D. Kuettner, with headquarters in the McKay Bldg., Portland.

The Coos Bay Electric Ry. Co. has been incorporated to build an electric railway between Roseburg, Marshfield and Coos Bay. Capital stock, $150,000. Incorporators are James H. Flanagan, of Marshfield; C. F. McCollom, Marshfield, and W. S. Chandler, of San Francisco.

OTTAWA, ONT.—We are officially advised that the St. Lawrence & Ottawa Elec. Ry. will be 255 miles long and will run from Ottawa to Morrisburg, to Brockville, to Perth, to Arnprior and to Ottawa. Surveys have been made for 40 miles of the distance. Capital and right-of-way have not been secured yet. J. E. Askwith is Pres., 24 Alexander St., and A. H. N. Bruce is Ch. Engr., 75 Somerset St., Ottawa. Noted on Sept. 23.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

PLAISTOW, N. H.—The Popular Light & Service Co. has been formed by Frank W. Preble and John E. Hayford, of Newton, N. H.; Thomas M. Everett, of Dorchester, Mass., and others to construct an electric light plant and furnish electricity in Plaistow and Newton.

MONTPELIER, VT.—The Corry-Deavitt-Frost Co. has awarded to D. W. COOLEY, of Waterbury, contract for the construction of concrete dam, 150 ft. long and 12½ ft. high, with a fall of 30-ft. gates to penstock and foundation for power house of plant No. 2 to be located 2,000 ft. above present plant at Kinney's Mills. Capacity of power plant, about 1,000 HP.

BROOKLYN, N. Y.—The directors of the Kings County Electric Light & Power Co. have voted to recommend to the stockholders an authorization of an issue of $5,000,000 of convertible debenture bonds, bearing interest at 6%. Application will be made at once to the Public Service Commission for approval, the proceeds to be used to take care of development work of both the Kings County Electric Light & Power Co., and the Edison Electric Illuminating Co.

BROOKLYN, N. Y.—Bids are asked until 11 a. m., Oct. 27, by Bird S. Coler, Boro. Pres., for supplying all labor and materials of every kind and description and constructing the station building to be known as the power and gate houses and appurtenances complete for the Gowanus flushing tunnel, situate at Douglass St. and the head of Gowanus Canal, Boro. Brooklyn, City of New York, in accordance with the plans and specifications.

***FORT H. G. WRIGHT** (New London, Conn., post-office), **N. Y.**—Bids will be received by the Constructing Quartermaster, U. S. A., New London, Conn., until Nov. 8 for furnishing and installing electric lighting fixtures and wattmeters in ten buildings at Fort H. G. Wright.

LOWVILLE, N. Y.—The Public Service Co. has authorized the Wetmore Electric Co., C. W. Harrison, Ch. Electrician, to begin operation of an electric light plant in the village of Cortland and the town of Denmark, and also to extend its distributing system in the towns of Croghan and New Bremen for the purpose of furnishing electricity to the villages of Beaver Falls and Naumburg.

ROSLYN, N. Y.—The Public Service Commission, Second District, has approved the consolidation of the Nassau Light & Power Co., the Nassau Gas, Heat & Power Co., the Floral Park Light & Power Co., of Roslyn, N. Y., and the Oyster Bay Electric Light & Power Co., of Oyster Bay.

PAWLING, N. Y.—The Pawling Electric Light & Power Co. is planning to erect a new power plant, and will soon be in the market for an engine or turbine, electric generator, exciter, etc.

CLINTON, N. Y.—The Village Trustees have awarded contract for furnishing electricity for operating the municipal electric light system to CHARLES A. BORST, of the Clinton Hematite Ore Mines. The contract is for a term of five years. The prices are as follows: Electricity for 27 arc lamps at $35 each per year; 20 incandescent street lamps of 32 c. p., at $15 per lamp per year, and electrical energy for commercial and residental lighting at 8 cts. per KW. hr. Mr. Borst will install a plant at once at his mines so as to be ready to furnish electrical energy when the present contract expires next February. The village owns the distributing system.

HUDSON, N. Y.—Contract for the construction of a new power house, coal pockets and trunk conduits at the New York State Training School for Girls here has been awarded to JOHN DYER, JR., of Albany, N. Y., at $50,200.

BABYLON (L. I.), N. Y.—The Village Trustees have granted H. A. Odell, of New York, a franchise, it is reported, to supply the village with gas for cooking, heating and illuminating. He will also petition for franchises in Lindenhurst, Copiague and Amityville.

COPENHAGEN, N. Y.—The Deer River Power Co., at present constructing a power plant near Copenhagen, is acquiring land for storage reservoirs. It is proposed to build a retaining dam, and probably a power line to Carthage.

SOUTH RIVER, N. J.—This borough contemplates the construction of an electric light plant, cost not to exceed $12,500. Plans, etc., are at the office of Charles Anderson, Boro. Clk.

BRIDGETON, N. J.—Bids will be received until Nov. 2 by Frank L. Hewitt, City Clk., for lighting the city for a period of five years from December, 1909.

***PLAINFIELD, N. J.**—Bids are asked by F. A. Waldron, Engr., 37 Wall St., New York, for 1 direct current, 40-KW. generator, 220 volts, provided with special shaft with flexible coupling on one end and pulley on the other, direct connected to one vertical cross compound non-condensing engine with the necessary governor which shall regulate within 2% from no load to full load; one rheostat for the above; one volt meter; one ammeter; one single throw switch with approved fuse blocks; all to be mounted on polished black slate panel. The above to be guaranteed against defects in workmanship and materials for one year, price to be f. o. b., Plainfield. An alternative price on one 50-KW. outfit is also requested.

PHILADELPHIA, PA.—Bids were received as follows on Oct. 16, by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for alteratio[illegible] in the power plant at the Naval Hospit[illegible] Philadelphia: John W. Danforth & Co., [illegible]lorado Bldg., Washington, (1) $12,919, [illegible] add $2,400; Edward Fay & Sons, 152 [illegible] Ranstead St., Philadelphia, (1) $12,992, [illegible] add $1,8[illegible] (3) add $195; McCay Engineering Co., 9[illegible] East Lexington St., Baltim[illegible] (1) $17,365, (2) add $7,000, (3) add [illegible] (4) deduct $150, (5) deduct $300; D'O[illegible] Engineering Co., 121 South Eleventh S[illegible] Philadelphia, (1) $15,970, (2) $3,670, (3[illegible]dd $265, (4) $15,670; Arrow Conductor [illegible]Mfg. Co., 196 Orleans St., Chicago, (5) [illegible]6 (lightning conductors); G. & W. Mfg. [illegible] 26 Cortlandt St., New York, (1) $19,300, [illegible] $23,000, (3) $23,150.

BALTIMORE, MD.—The B[illegible] of Awards on Oct. 6 awarded to t[illegible] AMERICAN STREET LIGHTING CO., [illegible]imore, contract at $10.10 each for m[illegible]aining 7,312 gas lamps, and $26 each fo[illegible]pplying the naphtha and maintaining [illegible] naphtha lamps for the year begining [illegible] 10, 1910.

WASHINGTON, D. C.—Bid[illegible]e asked by the Bureau of Yards and Do[illegible] Navy Department, Washington, until 1[illegible] a. m., Nov. 20, for one 75-KW. engine-dr[illegible] generating set. Specifications are on file [illegible]he office of Engineering News, New Yor[illegible]

RICHMOND, VA.—E. W. T[illegible]fford, Consulting Engr., Chamber of Commerce Bldg., has submitted to the Council Commission on Water and Electricity, E. Dou[illegible]as Richardson, Chn., a report on the cost of the distribution system for 960 arc lamps, poles and wires, based on overhead construction, including an overhead line to the City Hall and near-by public buildings, with entire new equipment, estimating the cost at $72,000.

GRAHAM, N. C.—See item under Manufacturing Plants.

ORANGEBURG, S. C.—The Edisto Power Co., care of Wolf & Berry, Orangeburg, is planning to install an emergency steam plant of from 1,000 to 2,000 HP., to be used until the hydroelectric plant is built. The cost of the hydroelectric plant is estimated at about $1,000,000.

JEFFERSON, GA.—Plans are being prepared by E. P. Taylor, Engr., Athens, Ga., for the construction of an electric light plant for the Jefferson Cotton Mills Co., of Jefferson, and also for water-works and sewer system for the town of Jefferson. The equipment of the electric plant will include a 75-KW., 3-phase, 2,300-volt generator direct connected to a 125-HP. high-speed engine. The plant will furnish electricity to operate a 25-HP., 2,300-volt, 3-phase motor direct connected to a centrifugal pump for the water-works system. Tungsten lamps of 80 c.-p. will be used for street lighting.

AUGUSTA, GA.—The City Council on Oct. 4 granted a franchise to the Georgia-Carolina Power Co. J. P. Woods is interested. About 10,000 HP. will be developed.

COLUMBUS, GA.—The Chattahoochee Power Co. has filed a petition for a charter with a minimum capital of $100,000 and maximum capital of $2,000,000 for power development on Chattahoochee River. The company has acquired seven miles of water front in Harris County and will build a dam 30 ft. high developing 4,000 minimum HP. and bringing it to Columbus 17 miles away in the form of electricity. Estimated cost of dam, power house and transmission lines $400,000. The incorporators are: B. H. Hardaway, George A. Pearce and E. T. Rankin, all of Columbus.

ACKERMAN, MISS.—Bids will be received by the city until Nov. 2 for the construction of an electric light plant from plans of X. A. Kramer, of Magnolia. Estimated cost, about $35,000. J. M. Harris is City Clk.

LOUISVILLE, KY.—The Kentucky Electric Co., Robert E. Hughes, Pres., Louisville, has decided to issue $1,500,000 of bonds, of which about $400,000 will be expended within the next 15 months on additions and extensions.

YOUNGSTOWN, OHIO.—The Court House Building Commission has awarded contract for the gas and electric light fixtures for the new court-house to the MARREAU LIGHTING FIXTURE CO., of Cleveland, at $18,500.

MARIETTA, OHIO.—The Parkersburg, Marietta & Interurban Ry. Co. is planning to commence work at once in improving and remodeling its power station here.

DAYTON, OHIO.—The City Council has approved the report submitted by the City Engineer for the installation of the boulevard lighting system in the district outlined by the Council. Estimated cost, $33,680.

CLEVELAND, OHIO.—Plans are being made by the Upson Nut Co., of Cleveland, to enlarge its power house, including the installation of a boiler, contract for which has been let. The company also contemplates installing a generating unit of about 500 HP., not yet purchased.

MOLINE, ILL.—The Tri-City Railway & Light Co., J. F. Porter, Pres., Davenport, Iowa, is planning the construction of a new gas generating plant in the spring, west of the present power plant on Fourth St. Estimated cost, $500,000.

GALENA, ILL.—The Interstate Construction Co., of Galena, Il., it is reported, is constructing a new power plant, the equipment to include twi direct-connected cross-compound condensing units, one with a rating of 1,000 HP. and one of 1,500 HP. The boiler plant will consist of four 400-HP. Edgemoor water-tube boilers. The company has a power plant at Plattsville, Wis., which, it is understood, will be closed when the new plant is completed, electricity for operating the system in that place to be transmitted from Galena.

OSHKOSH, WIS.—Plans are being considered by the Board of Regents for the construction of a power and heating plant for the Oshkosh Normal School Building, for which an appropriation of $18,000 has been made. It has not yet been decided whether an electric generator will be installed to furnish electricity for lighting the building, but space, however, will be provided for it in the building.

AMHERST, WIS.—Preparations are being made by H. E. Dwinnell & Co., of Amherst, for enlarging their hydro-electric plant, which will include the construction of a concrete flume and the installation of new turbines, electrical machinery, etc.

JANESVILLE, WIS.—The Janesville Electric Co., A. W. Woodworth, Ch. Engr., has purchased the Indian Ford dam and power plant of Captain P. Norcross. The company now owns, in addition, the dam at Fulton and two plants in Janesville, aggregating 2,000 HP. Transformers and a new switchboard will probably be installed and other improvements made to the Indian Ford plant.

DETROIT, MINN.—The city has awarded the following contracts for improving the electric light plant and water-works from plans of L. P. Wolf, Engr., St. Paul, Minn.: Electric equipment to WESTERN ELECTRIC CO., Minneapolis, at $11,628; steam power to MINNEAPOLIS STEEL & MACHINERY CO., $7,825; pumping plant to FAIRBANKS, MORSE & CO., St. Paul, at $3,700. Bids were opened on Oct. 5.

GALENA, KAN.—The Empire District Electric Co., of Galena, has been incorporated with a capital of $6,000,000, by Col. W. F. Sapp, of Galena, and others, to build a steam power plant near Galena to furnish 20,000 HP. to the various mining and street railway and lighting companies of the section.

VALENTINE, NEB.—Bids will be received until 1 p. m., Oct. 25, by the Village Clk., for the construction of the whole or parts of the water and lighting systems here, including furnishing and installing all machinery and apparatus. W. K. Palmer Co. are Engrs., 718 Dwight Bldg., Kansas City, Mo. The plans and specifications are divided into six different sections, and separate proposals will be received on each section, and on the combined sections. The different sections are as follows: Section I, power-house, power-house equipment and dam; Section II, pole line from power-house to wells; Section III, wells, pump pits, pump-houses and equipment; Section IV, pipe line from wells to city, and city water system; Section V, concrete tank and pipe line from tank to wells; Section VI, pole line from wells to city, and city lighting system.

LIVINGSTON, MONT.—Work has commenced on the construction of the new power-house of the Livingston Water Works & Electric Light Co. Plans for equipment provide for a motor-driven centrifugal pump of 1,500,000 gallons capacity.

SIKESTON, MO.—Plans are being made by the Sikeston Ice, Light & Power Co. for improvements and extensions to its plant, to be made between now and early spring. Estimated cost, about $15,000. C. L. Clary is Mgr.

MAMMOTH SPRING, ARK.—Frank F. Hill, of Memphis, Tenn., and associates are interested in a project to construct a hydro-electric plant to transmit electricity to Mammoth Spring and Jonesboro, Ark., West Plains, Mo., and other cities. Estimated cost, about $300,000.

JENNINGS, OKLA.—About $7,000 will be expended by the Jennings Refrigerator, Electric Light & Power Co., F. Adams, Secy., for the proposed plant. J. H. Rickard, of Jennings, is Engr.

*WETUMKA, OKLA.—See item under Water Supply—Irrigation.

WEWOKA, OKLA.—The citizens have voted to issue $60,000 of bonds for the construction of an electric light plant, water-works and sewerage system.

RINCON, N. MEX.—William Palmer, Jr., has been granted a franchise to construct and operate an electric light plant here. Work has commenced on the erection of the plant.

*SPOKANE, WASH.—Bids are asked by the Board of Public Works until 2 p. m., Nov. 5, for three 7,500,000-gallon multi-stage, centrifugal pumps, three induction motors, switchboard, and connections. George W. Armstrong is Secy.

CHICO, CAL.—Bids will be received until Nov. 2 by the Board of Supervisors for the purchase of a franchise for an electric distributing system in Chico, petitioned for by Guy R. Kennedy, representing the Sacramento Valley Power Co.

ALAMEDA, CAL.—The Great Western Power Co., of San Francisco, Cal., H. P. Wilson, 25 Broad St., New York, Secy. and Mgr., has submitted a proposition to the City Council offering to supply electricity to operate the municipal electric light plant for a term of ten years. The plan provides for the extension of the transmission line of the company from Richmond to Alameda, to cost $10,000, to be paid by the city.

LONG BEACH, CAL.—The City Council is considering the question of extending the street lighting system along Ocean Ave. for at least two miles and installing additional lamps to the pier and American Ave.

REDDING, CAL.—The Sacramento Valley Power Co. will extend its transmission lines to Red Bluff and Chico, construction work now being under way. The company is a consolidation of the Northern Light & Power Co. and the Shasta Power Co., each of which had an overhead distributing system covering the city. The Sacramento Valley Power Co. is now taking down the Shasta Power Company's transmission system in Red Bluff. The Northern Light & Power Company's poles are allowed to remain, because they carry the wires of the city fire alarm system. In those parts of Redding where the Sacramento Valley Power Co. has only one line of poles they will be allowed to remain. The company has applied for a franchise in Chico. The trustees of that city have taken favorable action, and bids for the sale of a franchise will be opened Nov. 2. Noted in item under Chico, Cal.

MARYSVILLE, CAL.—Arrangements are being made to extend the transmission line from the Colgate plant to the California Mother Lode Mining Company's plant at Indiana Branch, a distance of six miles, to furnish electricity for operating the new electric hoist and stamp mill.

BAKERSFIELD, CAL.—The Power, Transit & Light Co. contemplates extensive improvements to its plant and equipment within the next year involving an expenditure of several hundred thousand dollars. Harry A. Jastro is Secy. and Gen. Mgr.

FRESNO, CAL.—Notice of appropriation of 15,000 cu. in. of water from Fish Creek has been filed by William S. Douglas and C. M. Russell, the water to be carried by a tunnel 2 1-3 miles in length from a diversion dam to the junction of the Great Bluffs with the middle fork of the San Joaquin River to be utilized for power purposes. Notice has also been filed of appropriation for a dam and reservoir site 150 ft. high and 900 ft. long to form a storage reservoir of about 200 acres, and water to flow to Fish Creek in connection with water rights there.

LOS ANGELES, CAL.—The Los Angeles & Mt. Washington Ry. Co. is contemplating the construction of a power house, contracts for the construction of which will be placed within two months.

GLOBE, ARIZ.—Preparations are being made by the Arizona & Eastern Consolidated Mining Co. for the construction of a hydro-electric plant to furnish electricity for operating its properties.

*WHIPPLE BARRACKS (Prescott post-office), ARIZ.—Bids will be received by First Lieut. William A. Alfonte, Constructing Q. M., U. S. A., until 3 p. m., Nov. 10, for furnishing labor and material required for the construction of an electric lighting system at Whipple Barracks.

MONTREAL, QUE.—The CANADIAN GENERAL ELECTRIC CO., Toronto, has been awarded contract for the supply of a 500-KW. steam turbo-generator for the Saraguay Electric Co., of this city.

MONTREAL, QUE.—The Mexican Light & Power Co., with head office here, has awarded contract to PEARSON & SONS, England, for electrical development on the Conclas River, Mexico, which will cost $5,000,000.

PORT ARTHUR, ONT.—The Ontario Hydro-Electric Commission has offered to supply the city with power at $17 per HP. with an ultimate reduction in price to $13.

BRACEBRIDGE, ONT.—Bids are asked by Alex. Salmon, Town Clk., until 6 p. m., Nov. 1, for (a) construction of general works of the hydro-electric development of Wilson's Falls, Muskoka River, consisting of dams, coffer dams, rock excavation, concrete walls, foundations, etc.; (b) hydraulic machinery, including 1,100 HP. turbine, 35 HP. turbine, governor, penstock, etc.; (c) electrical machinery, including generator, exciter, switchboard, etc. C. H. & P. H. Mitchell are Engrs., Traders Bank Bldg., Toronto, Ont.

GUADALAJARA, MEXICO.—Plans are being considered by the Guanajuato Power & Electric Co. for the erection of a transmission line into the city of Aguascalientes to supply electricity to the general shops of the National Railways, the smelter of the American Smelting & Refining Co., and other manufacturing plants. The company has recently issued $80,000 of bonds and will soon commence work on the construction of a third power plant on the Angulo River in Michoacan, which will give the company a total output of 22,000 HP.

BRIDGES.

NEW YORK, N. Y.—Bids were received as follows on Oct. 11 by Allen N. Spooner, Comr. of Docks, for furnishing all the labor and materials required for preparing for and building a new steel viaduct between the trolley platform and Jay St., St. George, Boro. Richmond: Snare & Triest Co., 143 Liberty St., $43,570; McHarg-Barton Co., 165 Broadway, $51,000; Charles Meade & Co., $48,770; Pennsylvania Steel Co., 71 Broadway, $49,968; N. E. Construction Co., 225 Fifth Ave., $46,500; Cooper & Evans, 221 Broadway, $46,738; Merrill-Ruckgaber Co., 50 Church St., $47,400; Grant Rearer, $46,200.

HOLLIDAYSBURG, PA.—Bids will be received by the Board of Commissioners of Blair County until noon, Oct. 26, for repairs to county bridges. Plans, etc., are at the office of Board. W. S. Hostler is Clk.

*READING, PA.—Bids will be received at the office of A. L. Rhoads, County Controller, until Nov. 4, for constructing a 1-span steel truss bridge over Tulpehocken Creek, known as the Blue Marsh Bridge; also for concrete abutments and wing walls for said bridge.

POTTSVILLE, PA.—NOLAN BROS. have been awarded contract for the masonry and approaches for the new bridge over the Reading R. R. on Russell St., St. Clair. The PENNSYLVANIA STEEL CO. has the contract for the superstructure.

PHOENIXVILLE, PA.—The JAMES McGRAW CO., Philadelphia, Pa., have been awarded contract for constructing stone arch bridge over the water power canal of the Phoenix Bridge Co., for the Philadelphia & Reading Ry. Co.

PITTSBURG, PA.—Contracts are about to be let for the construction of a bridge over Negley Run Hollow, at Meadow St., the structure to be 515 ft. long with 30-ft. roadway and 10-ft. sidewalks on each side. Estimated cost, $65,000.

RICHMOND, VA.—The Board of Supervisors of Henrico County, W. C. Saunders, Chn., has awarded contract to E. J. HEATON, Richmond, for construction of proposed reinforced-concrete bridge over Horse Swamp.

NORFOLK, VA.—The W. W. Gwathmey Engineering Co., Norfolk, is lowest bidder, at $3,981, for the construction of a concrete bridge on Union Causeway.

LESTER MANOR, VA.—Bids will be received until Nov. 1 by the Board of County Supervisors, King William, B. C. Garrett, Clk., for constructing a steel bridge across Harrison Creek, near Lester Manor, Southern Ry. Co., to be 38 ft. in length, 12 ft. in width and to have concrete abutments.

WHEELING, W. VA.—Bids are asked by the Board of Control until Oct. 21 on the concrete work of the superstructure of the Market St. bridge.

NATCHEZ, MISS.—The Natchez & Southern Ry., E. G. Merriam, Pres., St. Louis, Mo., will construct a steel bridge over St. Catherine St. Estimated cost, $5,000.

MONTICELLO, MISS.—The MEMPHIS BRIDGE CO., Memphis, Tenn., has been awarded contract by the county, at $7,000, for constructing steel bridges across Big Bahala, and steel bridges across Halls Creek for county; also for approaches to steel bridge over Pearl River. Bids were opened on Oct. 4.

NEW ORLEANS, LA.—The Streets and Landings Committee on Oct. 2 passed favorably on plans and specifications prepared by the City Engineer for the construction of a combination roadway and railway bridge over the Orleans Canal on the line of City Park and for the repair of the bridge over the New Basin Canal on the axis of Galvez St.

SHELBYVILLE, TENN. — The Bedford County Commissioners have awarded contract to NASHVILLE BRIDGE CO. to construct a bridge over Duck River and have appropriated $5,599.

CLEVELAND, OHIO.—The Logansport, Frankfort & Indianapolis Traction Co., 613 Citizens' Bldg., has let contract to the U. S. ENGINEERING & CONSTRUCTION CO., New York, W. E. Mose, Supt.-in-Charge of Construction, Hotel Dunn, Logansport, Ind., for the construction of nine bridges between Logansport and Frankford, Ind.

ELYRIA, OHIO.—C. H. Lawrence, Engr., will soon prepare plans for eight or ten steel or concrete bridges, consisting of 18 to 20-ft. spans. O. E. Haserodt is Comr. Lorain County.

EATON, OHIO.—Bids are asked until noon, Nov. 6, by the County Commissioners for erecting the substructures and superstructures of four new bridges.

BUCYRUS, OHIO.—Bids are asked until noon, Oct. 30, by the County Commissioners, for furnishing all labor and material for the construction of the superstructure of the Kleinknecht bridge in Whetstone Township. J. I. Smith is County Audr.

ST. CLAIRSVILLE, OHIO.—Bids are asked until 1 p. m., Oct. 25, by the County Auditor for labor and material for concrete superstructure for bridge upon Buttermilk Creek, in Kirkwood Township.

CIRCLEVILLE, OHIO.—Bids will be received by the Board of Commissioners of Pickaway County, at office of N. C. Bohnert, County Audr., until noon, Nov. 1, for the construction of the substructure and superstructure for a bridge over Moccasin Run, in Saltcreek Township.

CINCINNATI, OHIO.—Bids will be received by the Board of Commissioners of Hamilton County until noon, Nov. 5, for laying new floor on bridge over the Big Miami River, at Miamitown, in Whitewater Township. Fred Dreihs is Clk.

*CINCINNATI, OHIO.—Eight bids were received on Oct. 11 by the Board of Public Service for the construction of the Mohawk Pl. lift bridge. All will be rejected as excess of the estimate of $25,725. The lowest bid, that of Grainger & Co., was $31,568. The bids ran from this to $48,000, the bid of the Mt. Vernon Bridge Co.

INDIANAPOLIS, IND.—Bids are asked by the Commissioners of Marion County until 10 a. m., Oct. 30, for the construction of abutments to bridge over Goose Creek in Decatur Township. Albert Sahm is County Audr.

RICHMOND, IND.—Bids are asked by the Commissioners of Wayne County until 10 a. m., Oct. 30, for the construction of three steel bridges and the repair of two bridges. D. S. Coe is Audr.

BRAZIL, IND.—Bids are asked until 11.30 a. m., Nov. 1, by J. L. Burns, County Audr., for constructing a reinforced-concrete bridge.

VERNON, IND.—Bids are asked until 11 a. m., Nov. 1, by T. L. Thomas, County Audr., for the construction of a 3-arch stone bridge at Edwards Ford, Campfield Township.

TIPTON, IND.—Bids are asked until 1 p. m., Oct. 23, by the County Commissioners, for the repair of the bridge over Hanshew Ditch, near Hobbs.

DECATUR, IND.—Bids are asked by the County Commissioners until 10 a. m., Nov. 2, for the construction of the Luginbill bridge in Blue Creek Township. H. S. Michaud is County Audr.

BURLINGTON, IOWA.—Bids are asked by the City Council until 4 p. m., Nov. 1, for repairing Cascade bridge. J. F. Winters is City Engr.

WASHTA, IOWA.—The Board of Supervisors, Cherokee, is stated to have awarded the contract for constructing a steel and iron bridge over the Sioux at Washta to STARK BRIDGE CO., of Des Moines, at $5,100.

LAWRENCE, KAN.—Bids will be received until Oct. 23 by W. R. Green, County Clk., Lawrence, for constructing a steel bridge over Rock Creek, Township 14, Range 17.

LOWELL, KAN.—Contract for the construction of the highway bridge and by-pass at the Spring River hydraulic plant, between Lowell and Riverton, Cherokee County, Kan., has been awarded to W. A. O'BANNON, of Muskogee, Okla., and A. J. FOSTER, of Joplin, Mo., at $50,000. The contract will be under the name of the A. J. Foster Construction Co., of Joplin, Mo.

MARYSVILLE, KAN.—The Board of County Commissioners has awarded contracts to the STANDARD BRIDGE CO., of Omaha, Neb., for the construction of two large steel bridges across the Big Blue River.

LA MOURE, N. DAK.—Bids will be received by C. J. Alister, Audr., LaMoure County, until 2 p. m., Nov. 16, for the construction of various bridges.

ELLENDALE, N. DAK.—Bids will be received until 2 p. m., Nov. 8, for replanking the Oakes bridge with 3-in. fir plank and for placing the old plank now on the bridge over the new plank when laid. V. E. Haskins is County Audr.

GALENA, MO.—Bids will be received until Nov. 1 by John H. Resser, County Engr., for constructing a bridge over James River, Sec. 7, Township 24, Range 23.

WALDRON, ARK.—Scott County Quorum Court has authorized the construction of a bridge at Waldron and Bates, Ark.

BATESVILLE, ARK.—Independence County has appropriated $8,000 for construction of steel bridges.

STILLWATER, OKLA. — The CANTON BRIDGE CO., Canton, Ohio, has been awarded contract, at $18,000, for the construction of a bridge over Cimarron River at Hohimer Ford, near Yale.

GUTHRIE, OKLA.—The County Commissioners have awarded contract to N. H. STURGIS, Guthrie, for a 240-ft. suspension bridge across the Skeleton River, in Rose Hill Township, at $3,300.

SPOKANE, WASH.—Bids will be received until Nov. 22 by Robt. Fairley, City Controller, for $500,000 bridge construction and repair bonds.

TRENT, WASH.—WILLIAM OLIVER, of Spokane, on Oct. 5, was awarded contract for the construction of the steel bridge over the river at Trent by the County Commissioners, at $18,800. Time, April 1, 1910.

SPRINGFIELD, ORE.—L. N. RONEY secured contract for constructing a bridge over Willamette River here consisting of four concrete piers and three spans. Estimated cost, $40,000.

PHOENIX, ARIZ.—Bids will be received until Nov. 6 by the Board of Supervisors, Court House, Phoenix, William E. Thomas, Clk., for constructing a reinforced-concrete bridge over the Salt River at Center St., cost not to exceed $100,000.

SHERBROOKE, QUE.—Bids will be received by F. J. Griffith, City Secy.-Treas., Oct. 30, for the construction of a steel bridge across Magog River at Sherbrooke.

ST. JOHNS, QUE.—Contract for the construction of the Canadian Pacific Ry. bridge from here to Ibberville has been let to QUINLAND & ROBERTSON, Montreal. It will be 1,500 ft. long, double-track with a draw span in the center.

BUILDINGS.

BELFAST, ME.—Bids were received as follows on Oct. 14 by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office at Belfast, Me.: Conners Bros. Co., Lowell, Mass., $38,850; William H. Fissell & Co., New York, $35,483; Wills & Marvin Co., New York, $39,727; F. W. Cunningham & Sons, Portland, Me., $37,471. Time, Nov. 1, 1910.

BOSTON, MASS.—A site has been chosen at Arlington and Newbury Sts. for a proposed 8-story Y. M. C. A. Bldg. The building lot measures 112 × 186 ft., with a set-back of 22 ft. on Newbury St., which makes the main facade of the building, facing the Public Garden, 90 ft. in width. The plans for the building have been prepared by Shepley, Rutan & Coolidge, Ames Bldg., Boston. The exterior design is an adaptation of the Italian Renaissance with a semi-domestic scale which is monumental. The building will be exposed to view on all sides. The material will be limestone. The main entrance is to be on Arlington St. and will open directly into a reception hall, two stories in height, around which are grouped the social rooms, billiard room, the main office, and beyond the boys' department, which will have a separate entrance on Newbury St. and will extend the entire width of the main building. The swimming pool, 20 × 60 ft., will occupy the remainder of this floor. The building will have two stories below the first floor, to be utilized for various purposes, including the entire space under the sidewalks and restricted area. In the basement will be the Association Spa, banquet hall, coat rooms and lavatories, bowling alleys, clubrooms and several rooms for the boys' department.

BROCKTON, MASS.—The George E. Keith Co., will begin this fall the erection of an executive building. The building will be 183 ft. long and 63 ft. wide, four stories high. It will be erected at the corner of Station Ave. and Evans St., nearly opposite the Campello station of the New York, New Haven & Hartford R. R. It will be of steel and cement construction.

NEWPORT, R. I.—The Army and Navy Committee of the Y. M. C. A. announces that it has received a gift of $250,000. The money is to be used toward building an army and navy building like the one at Brooklyn. Work will be started soon.

WOONSOCKET, R. I.—James Knox Taylor, Superv. Arch. of the Treasury, Washington, D. C., has rejected all bids recently received for the construction of a post-office at Woonsocket, R. I., except the three lowest, from which bidders supplementary bids will be asked. A complete list of bids was given on Sept. 30.

WILLIMANTIC, CONN.—The following proposals have been received by the School Building Committee, of which S. Arnold Peckham is Chm., for the construction of the proposed school building: H. Wales Lines Co., Meriden, Conn., $53,287 with assembly hall, and $49,397 without assembly hall; Peck, McWilliams & Co., Norwich, Conn., $52,980 and $49,780; John W. Duff, Boston, Mass., $73,620 and $66,501. Heating and ventilating, E. O. Barrows, Boston, Mass.

WATERBURY, CONN.—The Directors of the Waterbury Hospital Association have awarded the general contract for the Waterbury Hospital to TRACY BROS., 52 Benedict St., Waterbury. The total cost is $250,000.

*NEW HAVEN, CONN.—Bids are asked until 3 p. m., Nov. 15, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction (including plumbing, gas piping, heating apparatus, electric conduits, wiring and lift), of an extension, remodeling, etc., to the U. S. post-office and custom-house at New Haven.

NEW YORK, N. Y.—We are officially advised that the Workingmen's Educational Association has filed plans for a clubhouse, to be built in the Bronx, to cost $200,000. The architects are C. Schaefer, Jr., and Frederick Jaeger, 461 Tremont Ave., the Bronx. The new building will be erected on a plot 59.4 x 172 ft. on the east side of Washington Ave., 161 ft. south of 164th St. It will be five stories high in front and three and a half stories in the rear. The material will be brick and limestone and terra cotta fireproofing, with ornamental facades. Bids will be received about Jan. 15.

Modified plans for the house to be erected for James B. Duke, at the northeast corner of Fifth Ave. and 78th St., have been filed by Horace Trumbauer, Arch., Land Title Bldg., Philadelphia. The architecture is to be of the Renaissance type, with facades of ornamental brick trimmed with granite and limestone. It will have a central entrance and Ionic columns at the second and third stories, crowned with a decorated pediment. It will have tall casement windows finished with ornamental railings at the different stories and courts around the entrance. The main floor will be divided by a central hall opening on one side to the dining room and library and on the other into the drawing room and music room. The revised cost of the building is $365,000. J. T. BRADY & CO., 103 Park Ave., have the general contract.

A loft building is to be erected on the site, 69 × 90 ft., at the northeast corner of Fourth Ave. and 20th St., sold by the State Realty & Mortgage Co. to Charles Brogan. This is to be a 16-story building, and it will cost about $400,000. The plans are being prepared by Neville & Bagge, 217 West 125th St., and will be ready in about a week.

WILLIAM J. TAYLOR, 5-7 East 42d St., has secured the general contract to erect the 12-story fireproof elevator apartment house, 107 × 100 ft., which the Eight Hundred and Twenty-nine Park Ave. Co., Matthew K. Miller, Pres., and George P. Walker, Secy., 103 Park Ave., is to erect at the southeast corner Park Ave. and 76th St. The proposed building will not cover the whole plot, which fronts 177.2 on Park Ave. and 100 ft. on 76th St. The present houses at 823-825 are to remain, so as to provide a light and air court. The Metropolitan Life Insurance Co. recently made a building loan of $625,000 on the property. Pickering & Walker, 103 Park Ave., are Archs., and R. F. Bolton, 527 Fifth Ave., Steam, Electrical and Sanitary Engr. There will be apartments for 48 families.

NEW YORK, N. Y.—The following bids were received by the Department of Public Charities on Oct. 11 for furnishing all the labor and materials required for the erection and entire completion of New Bradford St. Hospital, Boro. of Brooklyn, City of New York: Bottsford-Dickinson Co., 1170 Broadway, New York, $293,503; George Hildebrand, 38 Park Row, New York, $308,700; Peter Cleary, $311,423; John Kennedy & Co., 103 Park Ave., New York, $315,151; Thomas B. Leahy Bldg. Co., 1 East 42d St., New York, $335,000; Daniel J. Ryan, $325,000; Thomas McKewon, 103 Park Ave., New York, $309,400; Cramp & Co., 36 East 23d St., New York, $317,520; George F. Driscoll, $312,498; William J. Moran, Inc., 562 Burnside Ave., the Bronx, $331,729; Charles H. Peckworth, 83 Carmine St., New York, $303,869; John F. Walsh Construction Co., 136 Charlton Ave., $325,000; Thomas J. Buckley Co., $294,000; Luke Burke & Son, $303,000; United Plumbing & Construction Co., $339,640.

Plans have been completed by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, 500 Park Ave., for the following new school buildings in Manhattan, the Bronx and Brooklyn: Public School No. 60, 5 stories, 116 × 181 ft., containing 64 class rooms, gymnasium, auditorium, play room, etc., to be erected at Manhattan, Clinton, Cherry and Water Sts., Manhattan; estimated cost, $450,000. School No. 74 (addition), containing 32 class rooms, at the northeast corner of Pleasant Ave. and 119th St.; estimated cost, $200,000. School No. 46, five stories, 200 × 200 ft., containing 48 class rooms, at 196th St., Briggs and Bainbridge Aves., Bronx; estimated cost, $350,000. School No. 102, five stories, 200 × 100 ft., containing 44 class rooms, at 305-325 East 113th St.; estimated cost, $325,000. School No. 136 (addition), five stories, containing 32 class rooms, at Fourth Ave., 40th and 41st Sts., Brooklyn; estimated cost, $200,000. Bids will be advertised for in the usual way as soon as the necessary appropriation has been granted for the work.

NEW YORK, N. Y.—Plans have also been filed for a 6-story elevator apartment house to be built at the northeast corner of Broadway and 151st St. for the Castleton Construction Co., of which Simpson Strauss is Pres. It is to have a frontage of 99.11 ft. and a depth of 140 ft. It will contain 46 suites of apartments. It is to cost $200,000. Gross & Kleinberger, Bible House, are Archs.

Moore & Landseidel, Archs., Third Ave. and 148th St., have plans ready for two 4-story brick flats, 40 x 67.6 ft., for the Frank A. Wahlig Co., 149th St. and Third Ave., to be erected at the southeast corner of Prospect Ave. and 179th St., costing $55,000. Also for two 4-story flats, 37.6 × 68 ft., for the same owners, in the south side of 179th St., 67.6 ft. east of Prospect Ave., costing $50,000.

McKim, Mead & White, Archs., 160 Fifth Ave., have filed plans for remodeling the basement and main floor of the 12-story building at 64 and 66 Wall St. into banking quarters for the Bank of Montreal, which recently bought the realty from Henry Corn. The improvements will cost $75,000 and include new vaults.

The Selkirk Realty Co. will erect a 12-story loft and office building at the southwest corner of 54th St. and Seventh Aves., to cost about $500,000.

The Ferguson Bros. & Forshay Engineering & Construction Co., Broadway and 180th St., will erect a 12-story elevator apartment house at the northeast corner of Riverside Drive and 93d St., on a plot measuring 114 × 152 ft. The approximate cost will total about $1,000,000.

NEW YORK, N. Y.—At a meeting of the Municipal Art Commission held on Oct. 16, Robert W. de Forest presiding, plans were approved for the erection of a municipal building, at an estimated cost of $10,000,000, in the two blocks bounded by Tryon Row, Centre St., Duane St. and Park Row. The plans call for the erection of a steel frame structure, faced with granite, 25 stories in height, surmounted by an 8-story tower. The total height of the structure will be about 550 ft. above street grade. The design, submitted by McKim, Mead & White, 160 Fifth Ave., Archs., is adapted from the classic and follows accepted traditions of buildings of public character.

Plans are being prepared by Euell & Euell Archs., 36 Manhattan St., for a 10-story storage warehouse, 100 × 100 ft., to be erected at the northeast corner of Brook Ave. and 161st St., the Bronx, by a Dr. Nelson Smith.

Bids are asked by Robert W. Hebberd, Comr. of Public Charities, until 2.30 p. m., Oct. 29, for furnishing all the labor and material required to repair the roofs, leaders and gutters on certain buildings and to put down new roofs on other buildings located at the Kings County Hospital, Boro. of Brooklyn, the City of New York.

NEW YORK, N. Y.—The Bankers' Trust Co., 7 Wall St., is to build a structure which will be 20 stories high and will cost about $1,750,000. The trust company will occupy only the lower two floors. Trowbridge & Livingston, 527 Fifth Ave., are Archs. The building is to be L-shaped with 69 ft. frontage on Wall St. and 28.5 ft. on Nassau St. It will take the place of the old Stevens Building, erected in 1880, and will abut the First National Bank Building and face the Sub-treasury. To provide the money, the company increased its capital from $1,000,000 to $3,000,000.

NEW YORK, N. Y.—Plans have been completed by Brown, McAghon & Strassle, 31-33 East 27th St., New York, for the Ridley Memorial Methodist Episcopal Church to be erected on Ocean Parkway and Foster Ave., Brooklyn, at a cost of $50,000. The building planned for will be 1½ stories high, brick and limestone, measuring 80x100 ft., having a seating capacity of 1,600. The Rev. T. T. Martin, 190 Lawrence Ave., Brooklyn, is pastor. No building contracts have been awarded.

YORKTOWN, N. Y.—The State is soon to establish a New York Training School for Boys, for which a site has been acquired at Yorktown, Westchester County, on the south shore of Mohansic Lake. The committee is composed of Dennis McCarthy, of Syracuse; Homer Folks, 105 East 22d St., and Newbold Morris, of New York. The commission has acquired a 500-acre site. The total estimated cost will be between $1,100,000 and $1,200,000.

SYRACUSE, N. Y.—Merrick & Randall, Archs., S. A. & K. Bldg., Syracuse, are preparing plans for two 4-story brick apartments, 70x75 ft., for Mrs. Charlotte E. Leonard, 406 West Onondaga St., Syracuse, costing $40,000 each. No bids will be taken before next spring.

SYRACUSE, N. Y.—Rev. James P. Magee, Rector of St. Patrick's Roman Catholic Church, 209 Schuyler St., has let the general contract to DELIMONICO BROS., 901 Danforth St., for erection of St. Patrick's School in Schuyler St. Cost, $50,000. Merrick & Randall, S. A. & K. Bldg., Syracuse, are Archs.

ROCHESTER, N. Y.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Nov. 2, for painting, repairs, etc., at the U. S. court-house, post-office, etc., Rochester, N. Y.

BUFFALO, N. Y.—The Board of Aldermen has ordered preparation of plans for the "Washington Street Market" building covering the block bounded by Washington, Ellicott and Chippewa Sts. The building will be of brick, structural steel, concrete and glazed tile. Estimated cost, about $400,000. Francis G. Ward, is Comr. of Public Works, City Hall. Howard L. Beck, 12 Erie County Bank Bldg., Buffalo, is City Arch.

BUFFALO, N. Y.—It is reported that an edifice is to be erected for the members of the St. Gerald's Church at Bailey and Delavan Aves. Rev. William H. Schreck is Pastor. Estimated cost, $150,000.

As soon as plans can be perfected and contracts let, E. M. Statler intends to build a 13-story addition to the Hotel Statler. The purchase of the Richelieu Hotel property on Swan St., adjoining his hotel, has been closed by the transfer of the deed. The addition will cost between $300,000 and $400,000, and will give the Statler Hotel 450 rooms. The property bought by Mr. Statler has 50 ft. frontage and is 99 ft. deep. It is occupied by a 4-story brick hotel, owned by William MacNamara, of Huntington County, Pa. On the ground floor of the addition will be an English tap-room about four times the size of the present bar, which it will replace. In the basement will be a large stag banquet room. A mezzanine will extend to the third floor from the entire first floor of the addition in which will be a large banquet room that will seat 400 persons. On the balcony will be boxes. The addition will contain 140 rooms with bath, some of them suites of parlor and bedrooms. It is planned to have the kitchen separated from the dining room by a glass partition through which the kitchen can be seen. The lobby of the hotel as it now stands will be enlarged by the removal of the newsstand to space now occupied by the bar.

PEEKSKILL, N. Y.—Cram, Goodhue & Ferguson, Archs., 170 Fifth Ave., New York, have completed plans and are taking estimates on the general contract for the fireproof brick convent school for the Sisters of St. Mary, at Peekskill, to cost $200,000.

CLINTON, N. Y.—MALLISON & SOUCIE, of Medina, have secured the contract to erect the Roman Catholic Church at Clinton, to cost $50,000.

GLEN COVE (L. I.), N. Y.—Clifford V. Brokaw will erect a Colonial house costing about $200,000 on the Walter E. Duryea estate tract at Glen Cove, which he purchased recently through William L. Hicks for $150,000. Plans for the dwelling, which will measure 200 × 60 ft., have been prepared by Little & O'Connor, 5 West 31st St., New York, who have also drawn plans for an extensive garage. The Duryea estate comprises 52 acres.

JACOB DALL CONSTRUCTION CO., 10 East 23d St., New York, has secured the general contract to erect the Nassau County Clubhouse, 100 × 178 ft., 2½ stories high, at Glen Cove, to cost $100,000. Woodruff Leeming, 20 Broad St., New York, has prepared plans.

GREENPORT (L. I.), N. Y.—Louis C. Maurer, Arch., 1495 Broadway, New York, has prepared plans for 82 concrete bungalows to be erected by the Hudson-Fulton Company at Greenport, overlooking Gardiner's Bay. Each house will be 22 × 50 ft. and will contain six rooms and bath. The entire operation will involve about $250,000.

RIVERHEAD (L. I.), N. Y.—George A. Miller, Chn., and J. Fred Flugarth, Clerk, of the Suffolk County Bd. of Supervs., met here on Oct. 13, and with William J. Beardsley, 49 Market St., Poughkeepsie, signed the formal contract under which Mr. Beardsley is employed as the supervising architect for drawing the plans of and supervising the construction of the new jail. Under the terms of the contract Mr. Beardsley is to furnish full architectural services and regular supervision of all the work, and is to furnish a competent superintendent during the erection of the jail. The proposed jail is estimated to cost from $100,000 to $125,000. The plans for the jail anticipate 125 cells, with all the modern improvements for sanitation, light and the control of prisoners.

*HACKENSACK, N. J.—Bids were received as follows on Sept. 30 by the County Building Committee of Bergen County, Hackensack, N. J., for erection and construction of a 3-story and basement fireproof court-house for Bergen County, at Hackensack: W. H. & F. W. Cane, 13 Park Row, New York, $394,309; Brady Construction Co., 103 Park Ave., New York, 564,849; W. H. Fissell & Co., 1133 Broadway, New York, $497,300; Hedden Construction Co., 1 Madison Ave., New York, $626,396.

PHILADELPHIA, PA.—The Horace B. Deal Co. is taking estimates on plans for an apartment house at the northwest corner of 22d and Chestnut St., for the Comber Estate. Milligan & Webber are Archs., 520 Walnut St.

Richard McDougall is taking estimates on seven 4-story flat houses he intends building at 59th and Walnut Sts., from plans by E. Allen Wilson.

Cramp & Co., Commonwealth Bldg., has been granted a permit for the erection of a public school on the south side of Dauphin St., between Mascher and Waterloo Sts. It will be a 4-story stone and brick structure, 117 × 90.6 ft. The cost will be $130,000.

PITTSBURG, PA.—D. T. RIFFLE, Keenan Bldg., has been awarded a contract by the Standard Automobile Co. to erect at the southeast corner of Grant Boulevard and Bellefield Ave., a 4-story service building to cost about $135,000. Mr. Riffle will begin work at once on this improvement, which, according to the terms of the contract, must be completed and ready for occupancy by April 1, 1910. This building will front 70 ft. in Bellefield Ave. and 215 ft. in Grant Boulevard. Reinforced concrete and steel will be the principal materials used, the exterior finish being in gray brick and ornamental terra cotta. Albert Kahn, Trussed Concrete Bldg., Detroit.

D. A. Dyche, Arch., 5803 Kirkwood St., is preparing plans and specifications for a large garage to be erected on the point where Grant Boulevard and Craig St. join. The building is to be fireproof, of steel and reinforced concrete, with a frontage of 135 ft. on Grant Boulevard, and 136 ft. on Craig St. The building will be four stories high on the Craig St. frontage and two stories on the Grant Boulevard frontage, and will contain about 28,000 sq. ft. of floor space. The garage will have an entrance on Grant Boulevard and two entrances on different floors on Craig St. The garage is to be heated with steam and equipped with an electric light system. The exterior of the building will be Roman brick, cut stone, and terra-cotta trimmings, and will cost complete $50,000. The building is to be used by a taxi-cab company.

BALTIMORE, MD.—The contract for the proposed 15-story addition to the Fidelity Bldg., at the northwest corner of Charles and Lexington Sts., will be awarded soon. Estimates have been taken on the bids several weeks. The work will cost nearly $1,000,000, and will be the most important building operation in the city this winter. Baldwin & Pennington, Professional Bldg., are Archs.

HAGERSTOWN, MD.—The Baltimore "Sun" states that the Western Maryland R. R. Co. is buying property on the block bounded by Foundry, Washington and Franklin Sts., in Hagerstown, for a site for a passenger depot. The company has closed a deal with Thomas D. Jones for a parcel of ground on which a number of houses are built fronting 123 ft. on Washington St. and a parcel fronting 123 ft. on Franklin St., at the corner of Foundry St. The railroad runs through the latter street. The company is said to have also purchased the S. F. Johnson property fronting on Foundry St., and negotiations are in progress for the purchase of the Hornburg, Routzahn, Howard and Walker properties on Foundry St. The station will be located one block north of the present depot. It is hoped to have it finished next year. Announcement has been made also that the road will be double-tracked through Hagerstown, and that the new repair shops erected in this city several years ago will be enlarged one-third their present capacity. New machinery will be installed, and the number of men employed increased 25%. Departments from Baltimore will be moved here upon completion of the improvements. The company, it is stated, expects to expend about $150,000 within the next six months on the improvements to be made in Hagerstown. The shop enlargement will cost about $25,000. J. A. Shepherd is Supt., Hagerstown; H. R. Pratt, Baltimore, Md., is Ch. Engr.

WASHINGTON, D. C.—NOLAN & SONS, 721 14th St., plumbing contractors, have been awarded the contract for plumbing in the new Southern Railway office building, after plans and specifications prepared by Milburn, Heister & Co., Archs., Home Life Bldg. Building is to be completed by Jan. 1, 1910.

FREDERICKSBURG, VA.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, has awarded contract for the construction of a post-office at Fredericksburg, Va., to AMBROSE B. STANNARD, St. James Bldg., New York, at $49,600. Time, Nov. 1, 1910.

CLARKSBURG, W. VA.—Milburn, Heister & Co., Archs., Home Life Bldg., Washington, D. C., have awarded contract to ELLIOT & WINCHELL for addition to steel frame office building for Judge Nathan Goff now under construction, at $60,000.

GASTONIA, N. C.—The Board of County Commissioners has invited bids for the erection and completion of a court-house according to plans and specifications prepared by Milburn, Heister & Co., Archs., Home Life Bldg., Washington, D. C.

WINSTON SALEM, N. C.—The Wachovia National Bank has awarded the contract to the CENTRAL CAROLINA CONSTRUCTION CO., of Greensboro, N. C., for erection of superstructure for their new building, after plans and specifications prepared by Milburn, Heister & Co., Washington, D. C., at $66,000. This does not include steam heating, vault work, bank fixtures, steel frame and elevators, which will be let under separate contracts.

RALEIGH, N. C.—The Shaw University, Charles Francis Meserve, Pres., will erect buildings and equip with machinery at cost of $40,000, and will have plans made and construction supervised by the University Industrial Department.

ATLANTA, GA.—John W. Grant and Third National Bank have had preliminary drawings prepared for a bank and office building, and probably will be ready for bids in about 60 days. The building will be of fireproof construction, 75 × 90 ft., 18 stories above sidewalk and two stories below. Architects' estimate of cost, $500,000. Morgan & Dillon, W. T. Downing and A. Ten Eyck Brown, all of Atlanta, are Archs. Noted on Sept. 30.

DYERSBURG, TENN.—A court-house, to cost $60,000, is to be erected here. W. A. Fowlkes and George T. Weakley are interested.

TOLEDO, OHIO.—We are officially advised that Gen. C. M. Spitzer has decided to erect the "Doctors'" building, between Tenth and Eleventh Sts., and that Bacon & Huber, Archs., Spitzer Bldg., Toledo, have prepared the plans. The contract is to be awarded about Nov. 1. The building will have a frontage on Madison Ave. of 200 ft., with an 85-ft. depth on Tenth and Eleventh Sts. It will be five stories, fireproof and cost about $110,000. The first floor will contain 16 shops, 15 × 50 ft., and the second, third, fourth and fifth floors will be divided into suites of two to seven rooms. The building is to be hot water heated, lighted by electricity and will have every convenience necessary for physicians, surgeons, dentists and specialists. The structure is to be built of brick, concrete and fireproofing, with an exterior of pressed brick and terra cotta. The interior will be finished in antique oak. Bacon & Huber expect to have the plans ready for bids in two or three weeks.

INDIANAPOLIS, IND.—The Sisters of St. Vincent de Paul have acquired a site on Fall Creek on which to erect a hospital. Bids will be received as soon as plans are prepared to conform to the site.

Plans are being drawn for the construction of a model hotel in connection with the Winona Technical Institute in this city. Eugene Girard, of New York, is Arch.

FORT WAYNE, IND.—Bids will be asked for soon for the construction of an elegant new club house for the Country Club. Chas. R. Weatherhogg, Hamilton National Bank Bldg., Fort Wayne, is Arch.

INDIANAPOLIS, IND.—The Trustees for the Indiana Home for the Deaf are asking for bids for the mechanical equipment of the buildings. The appropriation is $40,000.

TERRE HAUTE, IND.—The Trustees of the Tribe of Ben Hur have ordered plans and will soon ask for bids for the erection of a lodge hall. Estimated cost, $70,000.

The Trustees of the local Masonic order are planning to build a business block and lodge hall or temple. Bids will be in order about Jan. 1.

COLUMBUS, IND.—The Dr. Roope's Hospital Association has been incorporated to build, establish and equip a hospital building.

CHICAGO, ILL.—D. B. Fisk & Co., 103 Wabash Ave., manufacturers of millinery, have acquired the residence property at the northwest corner of Calumet Ave. and 23d St., and will improve it with a steel constructed, 7-story and basement building to cost $250,000. The firm, which is located at the southwest corner of Wabash Ave. and Washington St., will use the new building for its manufacturing departments, while its salesrooms will be maintained at the present location. The land fronts 120 ft. on Calumet Ave. and 177 ¼ft. on 23d St. The new building will occupy the entire area of the lot. Work will begin on the structure within a short time. G. L. Harvey, 175 Dearborn St., is Arch.

Crerar, Adams & Co., South Water St. and Fifth Ave., dealers in railroad supplies, have purchased the property at the southwest corner of Erie St. and Fairbanks Court from Henry R. Lloyd for $40,000. The land will be improved immediately by the purchasers with a 7-story building containing about 100,000 sq. ft. of floor space and costing in the neighborhood of $125,000. The lot has a frontage of 220 ft. on Erie St. and 100 ft. on Fairbanks Court. It is located in what has become known as the St. Clair warehouse and manufacturing district.

ELGIN, ILL.—Bids were received as follows on Oct. 19, by James Knox Taylor, Supervising Arch. of the Treasury Dept., Washington, D. C., for the construction of an extension to the post-office at Elgin, Ill.: Arthur R. Niemz, 253 La Salle St., Chicago, $37,900; Hazelton & Walin, Chicago, $42,000; William J. McAlpine, Dixon, Ill., $36,600. Time, Nov. 1, 1910.

LA CROSSE, WIS.—Bids were received as follows by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of an extension to the post-office building at La Crosse, Wis.: H. & F. Roettiger, Fountain City, Wis., $43,500; Northern Construction Co., 421 Milwaukee St., Milwaukee, Wis., $49,500. Time, Oct. 31, 1910.

MILWAUKEE, WIS. — The Milwaukee Board of School Directors, Frank M. Harbach, Secy., has decided to include the following stated funds for construction work in the 1910 Milwaukee City Budget: For new high school, Northeastern Division, $325,000; for addition to North Division high school, $30,000; for addition to South Division high school, $30,000; for addition to 19th District School No. 2, $35,000.

RACINE, WIS.—David G. James Co. has purchased the Teegarden tract on Main St., between Sixth and Seventh Sts., and proposes to organize a loan and trust company to build an 8-story steel and brick office and banking house to cost from $75,000 to $90,000.

CLARINDA, IOWA.—Bids are asked by William Orr, Secy. Bldg. Com. of the Armory, of the 51st Infantry Band, Clarinda, Iowa, until 2 p. m., Oct. 25, for the construction of a 2-story brick armory building, 58 × 138 ft. upon the concrete foundation, in Clarinda, Iowa, in accordance with the plans and specifications prepared by W. W. Welch, Arch., Clarinda.

ST. PAUL, MINN.—Bids will be received by the State Board of Control, P. M. Ringdal, Chn., St. Paul, until noon, Nov. 3, for constructing a 3-story fireproof girls' dormitory at the State University. The legislature has set aside an appropriation of $150,000 for this structure, and the plans have been worked out in accordance with the wishes of the University Board of Regents by C. H. Johnston, Arch., Manhattan Bldg., St. Paul.

Bids are asked until Nov. 3 by the State Board of Control for the erection of a pressed brick and cut stone fireproof hospital to be built at Phalen Park, St. Paul, for the indigent, crippled and deformed children. It will also be three stories high and plans were drawn by C. H. Johnston, Arch., Manhattan Bldg., St. Paul. The appropriation is $55,000.

The Board of Trustees of Macalester (Presbyterian) College have awarded the contract for the construction of a 3-story reinforced-concrete science hall on the campus to W. J. HOY, 311 Chamber of Commerce Bldg., St. Paul. Dr. T. M. Hodgman is Pres. of the college. Reed & Stem, Endicott Bldg., St. Paul, are Archs. Cost, $50,000.

FORT ROBINSON, NEB.—Bids are asked by the Constructing Q. M., until 11 a. m., Oct. 25, for the construction, heating, plumbing and electric wiring and fixtures for one hospital sergeant's quarters; also for additions to water and sewer mains to connect same with post systems.

OMAHA, NEB.—Bids are asked by Capt. John L. Hines, Q. M., until 10 a. m., Oct. 22, for construction, electric wiring and plumbing for the Quartemaster's stables, Omaha Depot. Plans and specifications are on file at the office of Engineering News, New York.

***FORT YELLOWSTONE, WYO.**—Bids were received by Lieut. G. C. Smith, Constr. Q. M., on Sept. 7, for constructing, plumbing, heating and electric wiring hospital building. We are officially advised that all bids have been rejected and new bids will be invited about Feb. 1.

KANSAS CITY, MO.—The Atchison, Topeka & Santa Fe Ry. Co. soon will begin the erection of Y. M. C. A. buildings at its division points between Kansas City and the Pacific Coast. The company has appropriated $150,000 for the work. Each building will cost about $20,000, and will be modern in every respect. Buildings will be erected at Dodge City, La Junta, Raton, Las Vegas, Albuquerque, Williams and Los Angeles. H. C. Phillips, Los Angeles, Cal., is Ch. Engr. of Coast Lines.

***LITTLE ROCK, ARK.**—Bids are asked until 2 p. m., Dec. 1, by the State Capitol Commission for construction of dome, entrance, steps and general interior finish required for the completion of the new State Capitol at Little Rock. Drawings and specifications may be seen after Nov. 1 at the office of the Capitol Commission, Little Rock, or the office of Cass Gilbert, Arch., 11 East 24th St., New York.

AUSTIN, TEX.—The University of Texas, S. E. Mezes, Pres., is having general plans for proposed permanent buildings prepared by Frederick M. Mann, Washington University, St. Louis, Mo. They will be mostly two story and basement structures of the early Italian style, with red tile roofs; overhanging eaves. Ultimate cost, $5,000,000.

OKLAHOMA CITY, OKLA.—The Oklahoma Ry. Co. will start construction on a 6-story terminal building at Grand and Hudson Sts. on Nov. 1. The building will be 50 × 100 ft., fronting on Harvey St., and will cost approximately $200,000. The first floor will be composed of store rooms, a general waiting room and ticket office. One entire floor probably the second, will be occupied by the Oklahoma Ry. Co., and the remaining floors by office tenants. A smaller building will be erected opposite the train sheds for the use of the transportation department of the railway, and for employees' rooms. For the present the first wing of the building is only being considered. Charles W. Ford, Oklahoma City, is Gen. Supt.

MONTESANO, WASH.—We are officially advised that plans and specifications for a $150,000 court-house to be built at Montesano for Chehalis County have been drawn by Watson Vernon, of Aberdeen, Wash. A jail will be erected in the rear of the building. The structure will be three stories high, fireproof, of stone, concrete and steel construction and 90 × 120 ft. Bids were received on Oct. 4 and the following contracts have been let: General, SYLLIAASEN & SANDS, of Seattle, Wash.; heating, C. A. PINKNEY HEATING CO., of Aberdeen, Wash.; plumbing, C. L. PETERSON PLUMBING CO., of Aberdeen.

VANCOUVER, WASH.—The contract for the construction of the new St. Joseph's Hospital has been let to MOORE & HARDIN, of this city, who will begin work at once. The building, when completed, will cost $125,000.

TACOMA, WASH. — The THOMPSON-STARRETT CO., of 49 Wall St., New York, has secured contracts for the erection of a 90 × 100 ft. 6-story and attic bank and office building at Tacoma, Wash. The contract calls for completion by May 15, 1910, at a cost between $200,000 and $225,00. It will be of steel skeleton and reinforced fireproof concrete arch construction. The exterior will be of pressed brick and architectural terra cotta.

SEATTLE, WASH.—J. M. Anderson has purchased through the office of H. E. Orr & Co. Lot 7, Block 21, A. A. Denny's Third Addition, which is located 120 ft. north of the northwest corner of Fourth Ave. and Union St., for $103,000, and will begin building on it a fireproof 7-story reinforced concrete and steel building for either hotel or office purposes, to cost $150,000 and which will be strong enough to support an additional eight stories. Mr. Anderson will design and supervise the building.

SPOKANE, WASH.—A 4-story addition containing 50 rooms will be built to the Riverside Hotel, 218 Riverside Ave., and the name of the hotel will be changed to the Calumet. George A. Sonnemann, owner of the building, estimates that the addition, together with improvements that are to be installed in the present building will cost about $65,000. Work on the new addition is to start this fall.

SALEM, ORE.—Lazarus, Whitehouse & Fouilhoux, Archs., Lumbermen's Bldg., Portland, Ore., have prepared plans for a 3-story annex to the State Hospital for the Insane at Salem. The same firm has been commissioned to prepare the plans for additional wings to the structure which will be added later and which will cost $125,000, while the 3-story annex will cost about $100,000.

ASTORIA, ORE.—Astoria Lodge, No. 180, B. P. O. E., has adopted the preliminary plans for its proposed new lodge building. The structure, which is to be either of pressed brick or concrete, will be 95 × 95 ft., two stories high, with a basement, and will cost in the neighborhood of $40,000. The entire upper floor will be occupied by the organization as lodge and clubrooms.

PORTLAND, ORE.—The Building Inspector has issued a permit for the erection of the Spalding block, at Third and Washington Sts., which is to be 14 stories in height and of steel construction. Cost, $500,000. On the lower floor of the building will be located the Ladd & Tilton Bank. JAMES STEWART & CO., St. James Bldg., New York, are the builders.

W. L. Morgan will construct a modern building to cost not less than $100,000 on the quarter block on the northwest corner of Fourth and Alder Sts.

Plans have been prepared and work on construction will start within a few days on the Saul Silverfield apartment house, which will be built at a cost of $125,000 on the west side of Lucretia Pl., north of Washington St. The building will be of brick construction, with stone trimmings and will be finished by March 1.

SAN FRANCISCO, CAL.—The plans have been prepared by Loring P. Rexford, City Arch., for the Holly Park Primary School. The structure will stand in Holly Park Ave., between West Park St. and Highland Ave. It will be of special construction, with reinforced concrete in the first floor and wooden joists and studs finished on the inside and outside with metal, lath and plaster on the stories above. The roof will be covered with red Spanish titles. The staircases and stairs, windows and doors will be fireproof and there will be sprinklers, hose reels, etc., on each floor. There will be 16 class rooms, eight on each floor, with an assembly room in the basement and other needed rooms for principal, retiring rooms, lunch rooms, etc., on the two floors. The cost will be $100,000.

SAN FRANCISCO, CAL.—The Sheridan Primary school will stand on Capitol Ave., between Farallones and Lobos Sts. The site to be occupied by the building and grounds is 250 × 180 ft. in size. The schoolhouse will be of special construction. The plans have been prepared by Loring P. Rixford, City Arch., Hewes Bldg. The ground floor and first story will be of reinforced concrete. Two upper floors will be of wooden joints and studs, finished on the inside and outside with metal lath and plaster. There will be two staircases, both to be inclosed with fireproof partitions. The stairs will be built of reinforced concrete. The entrance doors at the head of the stairs will be of metal and wire glass, making the staircases absolutely fireproof. The school building will contain 16 classrooms, eight on each of the upper floors, and also teachers', lunch and other rooms. In the basement will be an assembly hall, two special class rooms, toilet rooms, heating and ventilating rooms. All windows and outside doors are of metal. The roof will be of red Spanish tiles, finished with an ornamental galvanized iron cornice and frieze picked out with tile and marble panels. The whole of the exterior walls will be finished in stucco. From the second story an iron staircase will lead from the center of the building to the yard, thus giving each story three distinct exits. All electric appliances needed will be supplied. There will be two inside standpipes and hose reels and a separate water system to supply filtered water for drinking. The schoolhouse will accommodate 720 pupils. The cost will be $100,000.

LOS ANGELES, CAL.—W. P. Burnett, Arch., has prepared plans for a 3-story 80-room hotel, to be erected at 637-39 South Olive St., for Arthur M. Pelton. The building will be built of brick and concrete, and will have six store rooms on the ground floor. The contract has been let to J. W. MORRISON, builder, at $40,943.

Bids are asked by the Board of Supervisors, until 2 p. m., Nov. 8, for alterations to the jail annex on Buena Vista St. C. G. Keyes is County Clerk.

ELKO, NEV.—Bids are asked by A. G. Dawley, County Clerk, until noon, Nov. 1, for the steel and iron work for the courthouse and jail to be erected for Elko County at Elko. W. H. Weeks, Grant Bldg., San Francisco, Cal., is Arch.

SALT LAKE CITY, UTAH.—A permit for the erection of a 10-story stone, brick and steel business and office block on the west side of Main St., between First South and Second South Sts., has been granted, it is stated, for Thomas Kearns. Approximate cost, $600,000. Stores which have been occupying space there are now moving out, and it is understood the demolition of the present structures will begin almost immediately. The intention is to have the structure completed within a year.

***FORT DOUGLAS (Salt Lake City post-office), UTAH.**—Bids are asked by Lieut. Kenneth P. Williams, Constr. Q. M., Fort Douglas, until 10 a. m., Nov. 20, for the construction of one double set Company Officer's quarters with plumbing, heating, electric wiring and fixtures; one Quartermaster storehouse with electric wiring and fixtures, at Fort Douglas, Utah.

RIMOUSKI, QUE.—Bids will be received by Nap. Tessier, Secy. of the Dept. of Public Works, Ottawa, Ont., until 5 p. m., Oct. 25, for the construction of an armory here.

GUELPH, ONT.—The Board of Railway Commissioners of Canada has been considering an application made by the city of Guelph for a station and subway. Guelph asked that a previous order of the Board, to the effect that the Grand Trunk Ry. System should build a station at Jubilee Park, be carried out, and that the Grand Trunk Railway System should be ordered to construct a subway at Neeve St. in the vicinity of the present G. T. R. station, at the company's own expense. An order was made that a 30-ft. subway should be constructed at Huskinson St., and that Surrey St. should be extended east to the arch at the river. The Board's Engineer is to be sent to Guelph to ascertain the cost of this work, and when he has reported the Board will apportion the cost as between the G. T. R. and the city of Guelph. The Board held that both the railway company and the city would benefit by the improvements, and should share the expense. The Board's previous order for the erection of a station at Jubilee Park stands. Donald Guthrie, K. C., appeared for Guelph.

MORELIA, MEXICO.—According to press reports $1,200,000 will be spent by the State of Michoacan and city of Morelia in waterworks, drainage, paving and construction of a market building. These works will be begun at once. The plans have been accepted by the State Congress and Governor Aristeo Mercado has been authorized to close a pending negotiation with the Compania Bancaria de Fomento y Bienes Raices for a loan on easy conditions. The market building will cost $800,000, while the drainage and pavement will be undertaken at an initial cost of $900,000. At the same time pipes and mains will be laid for a complete water supply that will bring pure drinking water into the city under a pressure sufficient to carry it to the tops of the highest houses in Morelia City.

WATER SUPPLY—IRRIGATION.

(* *denotes that this work is advertised in Engineering News.*)

NEW BRITAIN, CONN.—The Water and Advisory Boards on Oct. 7 approved the letting of the contract for 8,000 ft. of 16 and 20-in. pipe, for installing the standpipes in the northwest section of the city to R. D. WOOD & CO., 400 Chestnut St., Philadelphia, Pa.

MIDDLETOWN, CONN.—The Middletown Water-Works will lay about 740 ft. of 4-in. pipe to be laid by the city. D. MacDonald is Supt.

NEW YORK, N. Y.—Bids are asked until 2 p. m., Oct. 27, by the Commissioner of Water Supply, Gas and Electricity for furnishing and driving or sinking wells at Bayside, in the Third Ward, Boro. Queens.

Bids are asked until 2 p. m., Oct. 29, by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for furnishing and delivering double-nozzle standard New York hydrants, inside screw valves, valve boxes and covers; also for furnishing, hauling, delivering and laying water mains.

Bids are asked by John J. Barry, Comr. of Correction, until 11 a. m., Nov. 4, for furnishing all labor and material required to install a new Croton pressure system, new salt water line, alterations and repairs to the laundry equipment, additions to steam lines in trench, etc., on Harts Island.

NEW YORK, N. Y.—Bids were received on Oct. 13 as follows by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for furnishing, delivering and laying high pressure fire service mains and appurtenances in 17th, 18th, 19th, 20th, 21st and 22d Sts.: Foye, Root & Co., $123,000; Atlantic Contracting Co., $102,000; Rogers & Haggerty, $96,253; John H. Roche, $91,000; Hyman E. Fox, $89,900. The above bids are approximate. All bids may be rejected on this contract.

***NEW YORK, N. Y.**—Contract for furnishing and installing two 12,500,000-gallon steam turbine pumps, two 225-HP. water tube boilers and all accessories has been awarded by the Board of Water Supply to the LORD ELECTRIC CO., 214 West 40th St., New York, at $34,884.

PAINTED POST, N. Y.—The Village Board of Trustees has let contract to the B. G. COON CONSTRUCTION CO., Wilkesbarre, Pa., at $21,194, for piping for water-works system. John L. Chatfield is Clk.

AUBURN, N. J.—Hazen & Whipple, Engrs., 103 Park Ave., New York, are preparing plans for filtration plant, pure water reservoir and alterations to pumping station for the Board of Water Supply. J. W. Ackerman, Supt., Auburn. Estimated cost, $170,000. Bids will probably be asked this winter.

***FORT HANCOCK, N. J.**—Bids are asked until noon, Nov. 19, by C. J. Goodier, Constructing Q. M., U. S. A., for the construction of pump-house, including coal trestle, stack, etc., boilers, machinery, piping, etc., a 300,000-gallon reinforced-concrete standpipe, 8-in. deep well and extension of water mains here.

WASHINGTON, D. C.—Bids are asked by the Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 a. m., Nov. 6, for additional artesian water supply and connections at the naval proving grounds here. William M. Smith is Acting Ch. Bureau. Specifications are on file at the office of Engineering News, New York.

FORT MONROE, VA.—Bids are asked by Capt. Ernest R. Tilton, Q. M., U. S. A., until 10 a. m., Oct. 27, for laying 635 lin. ft. of 4-in. c.-i. pipe and 108 lin. ft. of 4-in. iron casing for water connection from main to wharfhouse at Fort Monroe.

MARTINSVILLE, VA.—The city has voted $35,000 of bonds for water-works improvements.

REIDSVILLE, N. C.—The city has voted bonds for the extension of water mains.

FORT DADE (Egmont post-office), FLA.—Bids are asked until 8 p. m., Nov. 9, by the Constructing Q. M., U. S. A., for constructing an extension of 3,500 ft. to water main.

JACKSONVILLE, FLA.—The following are the bids opened by the Board of Trustees on Oct. 4 for the construction of a new 10-in. artesial well, a depth of 980 ft., price given per lin. ft.: Houghes' Specialty Well Drilling Co., Charleston, S. C., $3.50; Sydnor Pump & Well Co., Richmond, Va., $4.95; Southern Contracting Co., Lakeland, Fla., $3.50

FORT MORGAN, ALA.—Bids will be received by Capt. H. B. Chamberlain, Constructing Q. M., U. S. A., until 1. 30 p. m., Oct. 29, for the construction of eight cypress cisterns—one for F. O. quarters, one at each company officers' quarters, one at double set firemen's quarters, one at building 48, and one at building 49.

ACKERMAN, MISS.—The city has engaged X. A. Kramer, Magnolia, Miss., to prepare plans for the construction of waterworks, reservoir to have a capacity of 15,000 gallons. Bids are asked until Nov. 2.

NEW ORLEANS, LA.—No bids were received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for the construction of one 50,000 and one 20,000-gallon water tank at the U. S. Naval Station here.

***DETROIT, MICH.**—Bids are asked by the Board of Water Commissioners until noon, Nov. 9, for building and erecting three pumping engines at the new pumping station, each engine to be of 30,000,000 U. S. gallons capacity in 24 hrs. Benj. F. Guiney is Secy.

FREEBURG, ILL.—Bids were opened on Oct. 4 for the improvement and extension of the water-works from plans of Harper Bros., 21 N. Main St., East St. Louis, Ill. We are officially advised that contract has been awarded to HOWARD H. HALL, Sexton Bldg., East St. Louis, as follows: Steel tank and tower, $4,275; 840 ft. 8-in. c.-i. pipe, including specials, 95 cts., and 1,760 ft. 4-in. c.-i. pipe, 61 cts.; five 2-way hydrants, $24.90, and 150 ft. old 4-in. pipe taken up, 15 cts. Total $6,294.

ROCK ISLAND, ILL.—Bids have been opened for constructing a 6,000,000-gallon sedimentation and filter plant. The lowest bid is reported to have been submitted by the Fred T. Ley Co., of Springfield, Mass., at $43,000. Wallace Treichler is City Engr.

WEST ALLIS, WIS.—Bids will be received by L. F. Fish, City Clk., until Oct. 27, for eleven blocks of iron water mains.

RACINE, WIS.—The Park Board has let contract to ANDERSON & JOHNSON for putting in about 2,000 ft. of water service pipe in Lewis field. P. H. Connolly is City Engr.

OSCEOLA, IOWA.—This city will rebuild the reservoir dam and make improvements. Charles P. Chase is Consulting Engr., Chase Block, Clinton, Iowa.

CALUMET, MINN.—The Duluth Engineering Co., Palladio Bldg., Duluth, is preparing plans for a system of water-works for Calumet. Estimated cost, $10,000.

DETROIT, MINN.—See item under Light and Power Plants.

FORT LEAVENWORTH, KAN.—The McGUIRE & STANTON CONSTRUCTION CO., Leavenworth, Kan., has secured contract at $3,948 for the replacement of water main to quartermaster's stable and adjacent building, at Fort Leavenworth, and for the better fire protection of buildings in that vicinity.

LUCAS, KAN.—Bids will be received about Oct. 26 for the construction of water-works and an electric light plant from plans of J. S. Worley & Co., Kansas City, Mo. Estimated cost, $30,000.

KENSINGTON, KAN.—T. C. BROOKS & SONS CO., of Jackson, Mich., have secured contract for constructing water-works, bids opened on Oct. 6, as follows: Engine and pump, $1,840; 6, 4 and 2-in. pipe, 81 cts. to 27 cts. per ft.; tank and tower, $4,685, etc. George P. Taylor, of Stockton, Kan., is Engr.

FORT ROBINSON, NEB.—See item under Buildings.

VALENTINE, NEB.—See item under Light and Power Plants.

SIOUX FALLS, S. DAK.—The City Board of Commissioners has let contract to the SECURITY BRIDGE CO., Minneapolis, Minn., at $5,477, for the construction of a reinforced concrete well and motor-house for the municipal water-works system. L. P. Wolff is Consult. Engr., St. Paul, Minn.

ATHENS, TEX.—The city has voted $30,000 of bonds for the construction of water-works.

WOODWARD, OKLA.—The citizens have voted bonds for the extension of water-works.

*WETUMKA, OKLA.—Bids will be received by the city until 8 p. m., Oct. 27, for the following materials, f. o. b. Wetumka: Two boilers, one engine, one feed water heater, one boiler feed pump, one steam fire pump, one tank and tower, one electric A. C. generator, one electric driven pump and motor, three miles of pole line, arc lamps, etc., 8-in. c.-i. water pipe, 6-in. c.-i. water pipe, 4-in. c.-i. water pipe, 4 and 6-in. hydrants, 4, 6 and 8-in. valves. Plans and specifications on file at City Clerk's office and office of Federal Engineering & Contracting Co., Okmulgee, Okla.

LAY, COLO.—The Kindred Irrigation & Power Co. is reported to have completed surveys for an irrigation system to cover 55,000 acres of land southwest of Lay. The company proposes to erect a dam in Juniper Canon to a height of 175 ft., with backwater making an artificial lake covering 20 square miles. It is stated that maps are to be filed at once with the State Engineer at Denver.

GREELEY, COLO.—The Greeley-Poudre Irrigation District on Oct. 4 voted to contract with the LARAMIE-POUDRE RESERVOIRS & IRRIGATION CO., for construction of a full system of irrigation works to top the Cache la Poudre and Laramie Rivers in Colorado. A 2½-mile tunnel is to be built from the Laramie to the Cache la Poudre. The District also voted to authorize $5,100,000 of 6% irrigation district bonds to pay for the work. The district comprises 125,000 acres of land and was organized by Charles F. Few, of Greeley.

DENVER, COLO.—The Denver Reservoir & Irrigation Co. has awarded to the PHILLIPS & O'GARA CONSTRUCTION CO., contract for the enlargement of Marshall Lake, part of the Standley Lake Irrigation system, northwest of this city, at about $150,000 from plans of the Arnold Engineering Co., Chicago, Ill.

LONGMONT, COLO.—Contracts for constructing water mains have been awarded as follows: HENDRIE & BOLTHOFF, Denver, 3,000 ft. of 20-in. c.-i. pipe; ARTHUR C. BENT, 52,600 ft. 16, 18, 20 and 30-in. concrete pipe. George H. Stonex is City Clk.

PUEBLO, COLO.—Preliminary maps of the Welton ditch No. 2 and the Welton reservoir No. 1 have been filed here by the Welton Land & Water Co., which proposes to irrigate 7,000 acres of land in this vicinity. Cost, about $50,000.

The Pueblo-Rocky Ford Irrigation Co., which has taken over all the plant of the Orlando Land & Water Co., has filed the first plans with the County Clerk for one of the ditches, which will cost $285,000, and will irrigate 77,000 acres of land. The ditch is known as the Orlando Canal No. 5. The Ambursen Hydraulic Construction Co., of Boston, Mass., is reported interested.

EAGLE, COLO.—Bids were opened by the Board of Town Trustees on Sept. 30, for labor and furnishing material, including pipes, castings, hydrants, valves and reinforced-concrete distributing reservoir, for the complete construction of a system of gravity water-works. Contract has been awarded to H. B. IKELER, of Glenwood Springs, at $21,800. Other bids received were: Holme & Allen Co., Grand Junction, $27,941; Lunsden & Gordon, Grand Junction, $27,929. T. W. Jaycox is Engr., Denver.; L. R. Thomas is Town Clk.

MONTROSE, COLO.—Failing to secure a reasonable bid on the enlargement of 13 miles of the Montrose and Delta canal, Uncompahgre Valley project, Colorado, the Secretary of the Interior has authorized the Reclamation Service to perform the work by force account.

NORTH YAKIMA, WASH.—The Secretary of the Interior has decided that the bids received for 60 miles of sub-laterals under the first section of the Tieton unit, Yakima project, Washington, are exceedingly high. The Reclamation Service engineers estimated the cost of the work at $11,344, while the lowest bid was $23,750, or more than 100% in excess of the estimate. The Secretary has authorized the work to be done by force account, as the time will not permit of readvertising for bids.

SEATTLE, WASH.—See item under Streets and Roads.

FOREST GROVE, ORE.—The City Council has awarded contract for new gravity system to WESTERN WATER PIPE CO., of Portland, at $21,536.

NAPA, CAL.—The Napa City Water Co. has decided to issue $100,000 of bonds, proceeds of part of which will be expended for improvements.

ORLAND, CAL.—The Secretary of the Interior has awarded contracts for the earthwork on the distribution system for the Orland project, California, as follows: Sections 1, 2, 4, 6, 7, 8 and 9 to ANSON B. MUNSON, Stockton, Cal., at $26,780; Section 3, WILLIAM P. GAY and S. D. KOONS, of Orland, at $3,109; Section 5, GEORGE T. HALE, W. N. DOWNER and J. D. SMITH, Orland, at $2,979. The distribution system involves the excavation of approximately 200,000 cu. yds. The prices bid range from 11¼ cts. to 14 cts. per cu. yd.

VICTORIA, B. C.—Arthur L. Adams, Civic Water Expert, has presented plans for supplying the city with water from Sooke Lake at a cost of $2,236,500 and $1,663,000, respectively.

VANCOUVER, B. C.—Cleveland & Ducher, Engrs., of this city, have prepared plans for supplying several adjoining municipalities with water. Initial cost, $500,000.

*PORTO RICO.—Irrigation work. (See item under U. S. Possessions.)

SEWERAGE.

(* *denotes that this work is advertised in Engineering News.*)

BOSTON, MASS.—The WEST ROXBURY TRAP ROCK CO., it is reported, has secured contract for building a sewer in Hyde Park Ave., West Roxbury, at $13,227. Other bidders were: Antony Cefalo, $14,148; Peter W. Hill, Old South Bldg., $17,953; Coughlan & Shiels, 104 Hanover St., $18,792; D. E. Lynch, $19,402.

Contract for sewers in Farquhar St. and outlet between Robert and South Sts., West Roxbury, has been awarded to A. Cefalo,, 220 Devonshire St., at $6,636.

PETER W. HILL, Old South Bldg., secured contract on Oct. 6 for constructing a concrete sewer in Porter St., East Boston, at $14,000. Guy C. Emerson is Supt. Sts.

BOSTON, MASS.—All bids opened on Oct. 4 by the Metropolitan Water Board for improvement of Lake Cochituate surface water drains in Framingham, Natick and Wayland have been rejected, as exceeding the appropriations. The lowest bid received was that of S. Camoia, of Boston, as follows: 5,800 cu. yds. earth excavation, open channel, 70 cts.; 8,100 cu. yds. earth excavation, covered drains, $1; 3,200 cu. yds. borrowed earth, 31 cts.; 5 cu. yds. rock excavation, $5; 1,900 cu. yds. concrete masonry, $8.25; 960 lin. ft. 24-in. vitrified clay pipe, $1.15; 160 lin. ft. 18-in., 70 cts.; 90 lin. ft. 15-in., 65 cts.; 50 M ft. spruce lumber, $35; 2,900 sq. yds. stone paving, 93 cts.; 600 cu. yds. gravel for slopes of open channel, $1.10; nine manholes, each $52; three catch basins, each $55; placing c.-i. pipe across culvert at station 64, $150. Total, $28,591. Other bids were: T. H. Gill Co., Somerville, $32,448; Rowe Contracting Co., Brighton, $32,545; C. E. Trumbull Co., Boston, $36,172; Bruno & Petitti, Boston, $36,240; John J. Falvey, Boston, $36,495; Cenedella & Co., Milford, $39,580; Ferd. A. Wyman, Jr., Boston, $40,953; Martin & Condon, Watertown, $47,140.

NEW BRIGHTON (S. I.), N. Y.—Bids were received on Oct. 11 by George Cromwell, Pres. Boro. Richmond, for sewer in Bard Ave., from DeKay St. to Forest Ave., furnishing all labor and materials required for constructing a system of temporary sewers and appurtenances as follows. A separate storm water overflow sewer through and eastward at the foot of Maple Ave. and other streets being within sewerage district: Joseph Johnson's Sons, 193 Broadway, W. Brighton, $84,224; Joseph L. Sigretto, $84,289; Dominick Bannacci, $88,798; Litchfield Construction Co., 23 Flatbush Ave., Brooklyn, $80,402; Joseph Moore, $106,809; Merrill Ruckgaber Co., 50 Church St., New York, $85,255; Rogers & Haggerty, $92,883.

NEW YORK, N. Y.—Bids are asked by William F. Baker, Police Comr., until 10 a. m., Oct. 29, for furnishing all the labor, and furnishing and erecting all the materials necessary in putting in and completing new house sewer and plumbing fixtures to the 77th Precinct Police Station House, situated at the corner of City Island Ave. and Orchard St., City Island, Boro. The Bronx.

*ROME, N. Y.—Bids will be received until noon, Nov. 1, by R. C. Briggs, Pres. Bd. of Managers of the Rome State Custodial Asylum, Rome, for the construction of a sewage disposal plant at that institution. F. B. Ware is State Arch.

*WOODSIDE (L. I.), N. Y.—Bids are asked for the construction of a sewerage pumping station, and the laying of about 3,000 ft. of 10-in. c.-i. pressure main, and about 900 ft. of 15-in. vitrified sewer pipe. For plans and specifications, and other information, apply to the Woodside Heights Land Corporation, 1123 Broadway, New York.

BUFFALO, N. Y.—Bids will be received until Oct. 30 by the Dept. Pub. Wks., Francis G. Ward, Comr., for removing the present trunk sewer outlet and constructing a new one under the Black Rock Harbor and Channel, N. Y., near Albany St. Estimated cost, $150,000.

UTICA, N. Y.—The Board of Estimate and Apportionment on Oct. 5 approved an issue of $18,000 of bonds for storm sewers.

BEVERLY, N. J.—The proposed sewers and sewage disposal plant to be constructed here will cost between $50,000 and $60,000. Clyde Potts, Battery Pl., New York, is Engr.

BALTIMORE, MD.—The Sewerage Commission, 904 American Bldg., is having specifications prepared for lateral sewers, and will ask for bids in November. Estimated cost, $50,000.

Plans are being made and specifications will soon be asked for sanitary interceptor which will parallel Jones' Falls from high leved interceptor to North and Maryland Aves. B. T. Fendall is City Engr.

REIDSVILLE, N. C.—The city has voted $100,000 of bonds for the construction of a sewer system.

ALBEMARLE, N. C.—The city has selected J. M. Bandy, Greensboro, N. C., as designing and consulting engineer for installation of proposed sewer, water and lighting systems.

LOUISVILLE, OHIO.—Bids will be received by Harry L. Rebrassier, City Clk., until Nov. 15 for the purchase of $32,000 bonds for sewers and sewage disposal works.

SANDUSKY, OHIO.—Bids will be received until Oct. 27 by A. H. Stutz, Village Clk., for constructing a combined storm and sanitary sewer requiring about 3,500 ft. of 8-in. double strength vitrified pipe.

CINCINNATI, OHIO.—Bids are asked by the Board of Public Service until noon, Oct. 25, for the improvement of Tafel St., between Enslin and Wagner Sts., and Wagner St., from Tafel St., by constructing sewers and drains. John J. Wenner is Clk.

CINCINNATI, OHIO.—Contract for sewering the ravine west of Torrence Road, Madison Road and other streets in that territory was let on Oct. 14 by the Board of Control to THOMAS MALONEY at $25,967. This is about $6,000 lower than the estimated cost. J. H. Sundmaker is City Engr.

LONDON, OHIO.—The Council on Oct. 13 awarded contract to WILLIAM F. MANNAGAN at $6,932, for the construction of two sewers here.

AKRON, OHIO.—See item under Garbage.

CAYUGA, IND.—Bids will be received by H. McDaniel, Town Clk., until Oct. 25, for constructing a sewer in Division St.

MUNCIE, IND.—The Board of Public Works has ordered plans under Improvement Resolution 318, on which bids will be asked for the construction of a large sewer in Proud, North and Powers Sts. J. A. Jackson is City Clk.

KOKOMO, IND.—Bids are asked by the Board of Public Works until 10 a. m., Nov. 1, for the construction of various sewers. W. T. Meek is City Clk.

ELGIN, ILL.—The City Engineer is completing plans for the Seventh Ward sewer system and estimates the cost at $80,000.

CANTON, ILL.—The question of constructing a sewer system and disposal plant is under consideration. Estimated cost, $50,000. C. R. Beam is City Engr.

GREEN BAY, WIS.—Bids are asked until 10 a. m., Oct. 26, by the Committee on Sewers and Plumbing for constructing a 15-in. vitrified pipe sewer in the west side of Broadway from the manhole in the alley at the south line of block 34, Tank's sixth addition, south to the center of Prospect St.

WEST ALLIS, WIS.—Contract for ten miles of sewer drain in West Allis has been let by the Council to GREEN & SONS CO., 84 La Salle St., Chicago, at about $60,991. According to the contract 20,000 ft. of sewer must be laid this fall.

KAUKAUWA, WIS.—Bids will be received by the City Clerk until 4 p. m., Oct. 25, for building various sewers.

INDIANOLA, IOWA.—Contract for constructing 3,000 ft. of 6-in. to 12-in. sanitary sewers, bids opened on Oct. 4, has been awarded to SMITH & SON, of Indianola, at $3,397. A. H. Gilliland is City Engr.

BETTENDORF (Davenport post-office), IOWA.—Bids are asked by the town until Oct. 25, for the construction of a sewer system, comprising 600 ft. of 18-in., 4,450 ft. of 15-in., 3,060 ft. of 12-in., 740 ft. of 10-in., 4,690 ft. of 8-in pipe, 28 manholes, five flushtanks, septic tank and 4,020 yds. of rock excavation. Charles P. Chase is Engr., Clinton, Iowa.

BOONE, IOWA.—A. T. GARY, of Denison, Iowa, has been awarded contract by the city for sewer work at $55,000.

BRAINERD, MINN.—Bids will be received until 8 p. m., Nov. 1, by V. N. Roderick, City Clk., for constructing lateral sewer "L" in Sewer Dist. No. 1.

CALDWELL, KAN.—Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are preparing plans for a system of sanitary sewers and a sewage disposal plant; also for water-works extensions and improvements. Estimated cost, $30,000.

FORT ROBINSON, NEB.—See item under Buildings.

LINCOLN, NEB.—The Board of Sanitary Commissioners on Oct. 4 opened bids for extension of the concrete water way between N and P Sts., a distance of about 800 ft. Contract has been awarded to the LINCOLN CONSTRUCTION CO., Lin[illegible]n, at the following prices: Excavation, [illegible] cts. per yd.; concrete work reinforced, [illegible] per cu. yd.; paving, $1.75 per sq. yd[illegible]otal $37,638. Other bidders were: John [illegible]ank, $30,502; C. D. Campbell, $39,900; [illegible]h-Burke Co., $39,824.

FORT D. A. RUSSELL ([illegible]ort Russell post-office), WYO.—Bids [illegible]ll be received until 9.30 a. m[illegible]ov. 5, by Capt. V. K. Hart, Acting [illegible], U. S. A., Cheyenne, for furnishing m[illegible]al and constructing an independent [illegible] sewer for sewer system at Fort D. A. [illegible]sell, requiring 9,432 lin. ft. of 12-in. [illegible]r pipe and 26 manholes.

HAMILTON, MONT.—Cont[illegible]or a sewer system in Hamilton was [illegible]ed by the City Council on Oct. 4 to [illegible] BURRILL BRIDGE & CONSTRUCTIO[illegible] at $13,470, the next lowest being A. J. M[illegible]re, at $13,513.

WEBB CITY, MO.—Contr[illegible]or reconstruction of the Fourth St[illegible]blic sewer, bids opened on Oct. 4, has [illegible] awarded to V. E. KOCH, of Joplin, a[illegible]0,051. The work consists of 1,099 lin. ft. [illegible] 15-in. vitrified pipe, 4,600 lin. ft. 12-in. [illegible]trified pipe, 5,633 lin. ft. of 10-in. vitrified pipe and 6,100 cu. yds. of excavation. [illegible] J. McKenzie is City Engr.

ELDORADO, ARK.—The [illegible]oard of Commissioners of Sewer District No. 1 have awarded contract to MELLOR, [illegible]UCOWITZ & SHULL, of Eldorado, to construct sewer system, comprising five miles of mains and four septic tanks.

CORPUS CHRISTI, TEX.—The city has voted $142,000 of bonds for the construction of a sewer system.

OKLAHOMA CITY, OKLA.—Bids are asked by Bob Parman, City Clk., until Oct. 25 for the construction of a sanitary main sewer.

SEATTLE, WASH.—See item under Streets and Roads.

SALT LAKE CITY, UTAH.—The City Council is reported to have decided to let contract at once for sewer extension No. 220, including laying 15 miles of sewer laterals in the Second Ward. Estimated cost, about $135,000.

Bids will be received until Oct. 29 by the Board of Public Works, H. G. McMillan, Chn., for constructing pipe sewers in Iowa Ave. sewer extension No. 236.

PROVO, UTAH.—Bids will be received until 8 p. m., Nov. 1, by the city for the construction of sewers in sewer district No. 11, as follows: 6-in., 20,085 lin. ft., vitrified clay; 8-in., 7,558 lin. ft. same; 10-in., 991 lin. ft. same; 12-in., 1,445 lin. ft. same; 15-in., 1,929 lin. ft. same; 18-in., 4,913 lin. ft. same. Total, 36,921 lin. ft. Estimated cost, $48,926. E. A. Jacob is City Engr.

GARBAGE DISPOSAL.

NEW YORK, N. Y.—Bids were opened on Oct. 6 at the office of the Street Cleaning Commissioner for removal of snow and ice in Manhattan and Bronx Boroughs, as follows: Form No. 1: (a) removing, (b) piling: William Bradley, 1 Madison Ave., (a) 57 cts., (b) 40%; W. J. Fitzgerald, 547 West 45th St., (a) 72 cts., (b) 30%; Canavan Bros., 518 West 56th St., (a) 58 cts., (b) 45%. Form No. 2: (a) removing, (b) piling, (c) rough cleaning: William Bradley, (a) 19 cts., (b) 75%, (c) 90%; W. T. Fitzgerald, (a) 23½ cts., (b) 40%, (c) 70%; Thomas Crimmins Construction Co., 446 East 69th St., (a) 24 cts., (b) 60%, (c) 80%; Canavan Bros., 518 West 56th St., (a) 22 cts., (b) 50%, (c) 75%.

BROOKLYN, N. Y.—Bids were opened on Oct. 6 at the office of the Street Cleaning Commissioner, New York, for removal of snow and ice in Brooklyn Borough, as follows: Form No. 1: (a) removing, (b) piling, (c) rough cleaning: Newman & Holmes, Brooklyn, (a) 16½ cts., (b) 90%, (c) 95%; William Bradley, 1 Madison Ave., New York, (a) 14.9 cts., (b) 85%, (c) 95%; Donlon Contracting Co., Brooklyn, (a) 16 cts., (b) 75%, (c) 98%; Norton & Gorman, Brooklyn, (a) 23 cts., (b) 20%, (c) 50%; W. DuMarco, Mulberry St., New York, (a) 13½ cts., (b) 25%, (c) 84%. Form No. 2: (a) removing, (b) piling: Newman & Holmes, Brooklyn, (a) 34.95 cts., (b) 15%; William Bradley, (a) 44 cts., (b) 30%.

FORT TERRY (New London, Conn., post-office), N. Y.—Following are the bids opened Oct. 8 at the office of the Constructing Quartermaster, U. S. A., New London, Conn., for constructing garbage crematory at Fort Terry: Morse Boulger Destructor Co., 39 Cortlandt St., New York, $3,750; Charles E. Currier Co., 110 Summer St., Boston, Mass., $1,985 (building only); The Destructor Co., 111 Broadway, New Fork, $5,600; Dixon Engineering & Construction Co., Toledo, Ohio, $6,366; The G. & W. Mfg. Co., 26 Cortlandt St., New York, $12,443.

AKRON, OHIO.—The City Council is considering the question of constructing a sewage and garbage disposal plant, and has passed an ordinance to issue $1,000 bonds to be used in securing plans. Estimated cost, $600,000.

STREETS AND ROADS.

(* *denotes that this work is advertised in Engineering News.*)

BOSTON, MASS.—We are officially advised that C. W. DOLLOFF & CO., 20 Central St., Boston, Mass., have been awarded the contract to pave the Charles River Dam, also to furnish all material. They have the contract to pave the bridge over the B. & M. R. R. tracks, of the old Fitchburg Division, on Somerville Ave., Somerville, Mass. They also have the contract to pave the grade crossing at Malden, Mass., and the paving contract at the Thomas G. Plant Shoe Factory in Jamaica Plain, Mass.

George A. Hibbard, Mayor of Boston, has authorized Guy C. Emerson, Supt. of Sts., to award, without competitive bidding, ten contracts, in excess of $1,000 each, for work on the streets involving expenditures of from $1,000 to $11,000 in each case. The contracts will be given out at once. The largest contract provides for the reconstruction of Huntington Ave., at a cost of about $11,000. Another will be for macadamizing Lincoln St., at a cost of approximately $4,000. The other contracts will include the following: Macadamizing East and West Newton Sts., $2,000; macadamizing Park St., Dorchester, $1,350; macadamizing Northampton St., $1,350; macadamizing Ashmont St., between Dorchester Ave. and Carruth St., $1,400; macadamizing Bartlett St., $1,000; reconstructing a surface drain of concrete in Brookline Ave., between Audubon Road and the Fenway, Roxbury, cost not estimated, but over $1,000, and repairing the L St. bridge, $1,350.

PROVIDENCE, R. I.—Bids will be received until Oct. 27 by the State Board Public Roads, Providence, for constructing State highways in the following towns: Burrillville, 36,960 ft.; Middletown, 10,560 ft.; Westerly, West Greenwich, Exeter, Tiverton, 5,280 ft., respectively. John H. Edwards is Chn.

HARTFORD, CONN.—Contracts for the construction of state road work, bids for which were opened at the office of the State Highway Commissioner on Oct. 15, have been awarded as follows:

Town of Avon, 2,850 lin. ft. 14-ft. macadam-telford road, including one 15-in and three 18-in. tile culverts, to the LANE CONSTRUCTION CO., Meriden, Conn., $2.35 per lin ft. for macadam, $2.95 for telford, 45 cts. per lin. ft. for wood rail, 85 cts. per lin. ft. for rubble drain, and 60 cts. per sq. yd. for cobble gutters. Other bidders were: Pierson Engineering & Construction Co., Bristol, Conn., $2.50, $3.25, 50 cts., 60 cts., 60 cts.; A. C. Sternberg & Sons, West Hartford, Conn., $2.55, $3.05, 50 cts., $1, 55 cts.

Town of Portland, 1,210 lin. ft. 14-ft. graded road including one 20-in. and one 18-in. tile culverts, to ROGER KENNEDY, Middletown, Conn., $1,974 for grading, 30 cts. per lin. ft. for wood rail, 80 cts. per lin. ft. for rubble drain. Other bidders were: A. Brazos & Sons, Middletown, Conn., $4,356, 45 cts., 80 cts.; Samuel Nelson, Portland, Conn., $4,027.50, 30 cts., $1.50;A. Ferrigno, East Hampton, Conn., $3,000 for grading and 85 cts. per lin. ft. for rubble drain.

Same, 2,650 lin. ft. 15-ft. macadam road, including two 15-in. and one 24-in. tile culverts, to ROGER KENNEDY, $2.20 per lin. ft., for macadam, $3.40 for telford, 30 cts. per lin. ft. for wood rail, $1.50 per lin. ft. for rubble drain. $5.40 per cu. yd. for walling. Other bidders were: A. Brazos & Sons, Middletown, Conn., $2.79, $3.10, 45 cts., 85 cts., $5; Samuel Nelson, Portland, Conn., $2.41, $2.53, 30 cts., $1.50, $2. Bids were also received for 2,250 lin. ft. of 14-ft. graded road, including two 18-in. tile culverts, but contract was not awarded. The bids were as follows: A. Brazos & Sons, Middletown, $7,975 for grading, 50 cts. per lin. ft. for rail, 80 cts. per lin. ft. for rubble drain; Samuel Nelson, Portland, $9,993.50, 30 cts., $1.50; Roger Kennedy, Middletown, $7,350, 30 cts., $1.05.

Town of Franklin, 8,860 lin. ft. gravel-telford road, 14 ft. wide, including seven 18-in., one 24-in., four 12-in., one 20-in. tile pipe culverts, and one 12-in. c.-i. pipe culvert, to WILLIAM B. WILCOX, Norwich, Conn., $1.43 per lin. ft. for gravel, $1.93 for telford, 85 cts. per lin. ft. for rubble drain, 45 cts. jer lin. ft. for wood rail. Other bidders were: O. T. Benedict, Pittsfield, Mass., $2.13, $2.73, 80 cts., 50 cts.; Ahern Bros., Norwich, Conn., $1.84, $2.40, $1.12, 60 cts.; A. Brazos & Sons, Middletown, $1.75, $2.15 and 45 cts. for rail; B. D. Pierce, Jr., Co., $2.11, $2.80, 75 cts., 60 cts.; Roger Kennedy, Middletown, $1.68, $2.73, 95 cts., 30 cts.

Town of Bolton, 4,020 lin. ft. gravel road, 14 ft. wide, including two 18-in. and one 12-in. tile culverts, to W. M. BOLF, Hartford, Conn., $1.39 per lin. ft. for gravel, $2.24 for telford, 45 cts. per lin. ft. for wood rail, 60 cts. per sq. yd. for cobble gutters, 75 cts. per lin. ft. for rubble drain. Other bidders were: A. Brazos & Sons, Middletown, $2.15, $2.50, 45 cts., 75 cts., 80 cts.; O. T. Benedict, Pittsfield, Mass., $1.63, $2.23, 40 cts., 60 cts., 75 cts.; Amos Bridges' Sons, Hazardville, Conn., $1.82, $2.52, 55 cts., 60 cts., $1; Ahern Bros., Norwich, Conn., $1.89, $2.50, 55 cts., 58 cts., $1.18.

Town of Pomfret, 2,435 lin. ft. 18-ft. and 1,965 lin. ft. 16-ft. macadam-telford road, to A. BRIDGES' SONS, Hazardville, Conn., $2.56 for 18-ft. macadam, $2.26 per lin. ft. for 16-ft. macadam, $3.20 per lin. ft. for telford, 60 cts. per sq. yd. for cobble gutters, $1 per lin. ft. for rubble drain. Other bidders were: O. T. Benedict, Pittsfield, Mass., $2.65, $2.45, $3.40, 80 cts., $1; A. Brazos & Sons, Middletown, $2.62, $2.35, $3, 80 cts.; Lane Construction Corporation, Meriden, $2.97½, $2.36, $3.77½, 60 cts., 75 cts.

Same, 9,200 lin. ft. graded-telford road, including three 24-in. and one 12-in tile culverts, to A. VITO, Thompson, Conn., $1.55 for grading, $2.05 for telford, 60 cts. for cobble gutters, $1 for wood rail, 98 cts. for rubble drain. Other bidders were: C. W. Tryon, Meriden, $2.95, $3.40, 45 cts., 50 cts., $1; O. T. Benedict, Pittsfield, Mass., $2.59, $3.20, 75 cts., 50 cts., 80 cts.; Pierson Engineering & Construction Co., Bristol, Conn., $2.40, $2.90, 60 cts., 50 cts., 60 cts.; Amos Bridges' Sons, Hazardville, $2.29, $2.79, 55 cts., 55 cts., $1; Ahern Bros., Norwich, Conn., $2.34, $2.90, 60 cts., 58 cts., $1.22; A. Brazos & Sons, Middletown, Conn., $2.20, $2.45, 75 cts., 45 cts., 85 cts.; J. F. Gill Co., Boston, Mass., $2.97, $3.37, 65 cts., 30 cts., 75 cts.

NEW YORK, N. Y.—Bids are asked by John F. Murray, Pres. Boro. of the Bronx, until 11 a. m., Oct. 28, for regulating, grading and paving various streets in the Bronx.

Bids are asked by the Park Board, Henry Smith, Pres., until 3 p. m., Oct. 28, for furnishing and delivering gravel for parks and parkways in the Borough of Manhattan.

Bids are asked by George Cromwell, Pres. Boro. of Richmond, until noon, Oct. 26, for regulating and repaving with vitrified brick pavement on a concrete foundation the roadways of Bond St., from Heberton to Jewett Aves. and other streets, together with all work incidental thereto.

Bids are asked by John F. Ahearn, Pres. Boro. of Manhattan, until 2 p. m., Oct. 26, for regulating and repaving with wood block pavement on a concrete foundation the roadway of Delancey St., from 58 ft. east of the east curb of Essex St. to 84 ft. west of the west curb of Chrystie St.; also for regulating and paving with asphalt block pavement on a concrete foundation the roadway of 207th St., from Ninth Ave. to Tenth Ave.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education, until 4 p. m., Nov. 1, for grading about the premises of Public School No. 87, on the west side of Dry Harbor Road (Washington Ave.), between Pulaski and Wayne (Lafayette) Sts., Middle Village, Boro. of Queens.

The following contracts have been awarded by John F. Ahearn, Pres. of the Boro. of Manhattan: For regulating and repaving with asphalt pavement on concrete foundation the roadway of 15th St., from the west side of Fifth Ave. to the east side of Sixth Ave., awarded to SICILIAN ASPHALT PAVING CO., 41 Park Row, $8,765. For regulating and repaving with asphalt pavement on concrete foundation the roadway of 16th St., from the west side of Fifth Ave. to the east side of Sixth Ave., awarded to SICILIAN ASPHALT PAVING CO., $8,724. For regulating and repaving with asphalt pavement on concrete foundation the roadway of 22d St., from the west side of Second Ave. to the east side of Lexington Ave., awarded to SICILIAN ASPHALT PAVING CO., $1,010. For regulating and repaving with asphalt pavement on concrete foundation the roadway of 33d St., from the west side of Madison Ave. to the east side of Broadway, awarded to SICILIAN ASPHALT PAVING CO., $12,326. For regulating and repaving with asphalt pavement on concrete foundation the roadway of 47th St., from the west side of Fifth Ave. to the east side of Sixth Ave., awarded to SICILIAN ASPHALT PAVING CO., $8,791. For repairing and maintaining sheet asphalt pavements in the Borough of Manhattan where guarantee period has expired, awarded to BARBER ASPHALT PAVING CO., 30 Church St., $54,700. For widening the roadway and repaving with sheet asphalt pavement on concrete foundation the widened roadway on the west side of Fifth Ave., from the north side of 42d St. to the south side of 48th St., awarded to BARBER ASPHALT PAVING CO., $1,742. For repairing washout of Northern Ave., near its junction with Fort Washington Ave., awarded to W. H. MASTERSON, Walton Ave. and 177th St. For regulating and repaving with asphalt block pavmeent on concrete foundation the roadway of Madison Ave., from the north side of 94th St. to the south side of 116th St., awarded to BARBER ASPHALT PAVING CO., $86,389. For regulating and repaving with asphalt block pavement on concrete foundation the roadway on 98th St., from the west side of Amsterdam Ave. to the east side of Broadway, awarded to BARBER ASPHALT PAVING CO., $4,079. For regulating and repaving with asphalt block pavement on concrete foundation the roadway of 118th St., from the west side of Park Ave. to the east side of Fifth Ave., awarded to BARBER ASPHALT PAVING CO. For regulating and repaving with asphalt block pavement on concrete foundation the roadway of Second Ave., from the north side of 37th St. to the north side of 45th St., and from the north side of 53d St. to a point 66 ft. north of the north curb line of 58th St., awarded to HARLEM CONTRACTING CO., 2 Rector St., $61,732.

MOUNT KISCO, N. Y.—We are officially advised that the lowest bid received on Oct. 4 for macadamizing Main St. and grading Manchester Terrace was submitted by James Garofano, 152 South Fifth Ave., Mount Vernon, N. Y. Edmund P. Sanger, Mount Vernon, is Engr.

BINGHAMTON, N. Y.—The Board of Contract and Supply has received bids per sq. yd. as follows for paving a portion of Washington St.: A. D. Osborn, Bessemer block, $2; Shawmut block, $1.79; Clearfield block, $1.90; Mack block, $2. A. L. Willey, Mack block, $2.03; Porter block, $1.91; Pennsylvania clay, $1.93.

BUFFALO, N. Y.—The lowest bids received Sept. 29 by Francis G. Ward, Comr. of Pub. Wks., for paving are as follows: Repaving Englewood Ave. with asphalt, Barber Asphalt Paving Co., 80 Ellicott Sq., $16,470; with asphalt, Grant St., German Rock Asphalt Cement Co., D. S. Morgan Bldg., $23,340, and with brick, T. V. E. Bardol, D. S. Morgan Bldg., $26,000; Royal Ave., German Rock Asphalt Paving Co., $9,236.

FULTON, N. Y.—The Board of Public Works has approved plans of O. C. Breed, City Engr., for the paving of a portion of Broadway.

SYRACUSE, N. Y.—The Board of Contract and Supply has bids as follows for paving Marcellus St.: Warner-Quinlan Asphalt Co., 438 South Salina St., Syracuse, Trinidad asphalt and Pennsylvania Clay Co.'s block in the railroad strip, $42,799; F. J. Baker, Trinidad asphalt and Johnsonburg block, $38,722; Central City Paving Co., Kirk block, Trinidad asphalt and Johnsonburg block, $42,747; Warner-Quinlan Asphalt Co., Pennsylvania Clay Co. block, $42,545, Trinidad asphalt, $43,078; F. J. Baker, University Bldg., Johnsonburg block, $37,770; Trinidad asphalt, $40,810; Nicholas Marnell, Shawmut block, $40,322; Central City Paving Co., Johnsonburg block, $43,322; Trinidad asphalt, $42,051; Chas. J. Sullivan, with Jamestown block, $39,412. The following bids were received for resurfacing a portion of North Salina St.: Central City Paving Co., with Trinidad asphalt, $20,700; Warner-Quinlan Asphalt Co., with Trinidad asphalt, $19,133; with bitulithic, $19,587.

*HEMPSTEAD, N. Y.—Bids are asked by William E. Luyster, Clerk Bd. of Supervs., Mineolo, N. Y., until 10 a. m., Oct. 25, for regulating, grading, and macadamizing the highway known as Marcus Ave., formerly known as Tanner's Pond Road, in the Town of North Hempstead.

*NEWARK, N. J.—We are officially advised that the following contracts were let on Oct. 11 by the Committee on Roads an Assessments of the Board of Chosen Freeholders of Essex County, at Newark, for grading and paving with bituminous telford pavement the following roads, (a) Mountain Ave. in the Boro. of Caldwell, extending from the Old Road to Bloomfield Ave.; (b) Runnymeade Road in the Boro. of Caldwell and Essex Fells, extending from Bloomfield to Roseand Aves.; (c) Old Short Hills Road in the Town of West Orange and the townships of Livingstone, Milburn, extending from the Northfield to the Parsonage Roads; (d) Cedar St. in the Township of Livingstone, extending from Roseland Ave. to the Northfield Road. Wallace Ouhgetree is Dir.: (a) 325 ft., to A. P. MATTHEWS, Caldwell, N. J., $561; (b) 8,984 ft., PHILIP & PETER JANNERONE, Belleville, $18,884; (c) and (b), M. M. BAMBURGER, 9 Clinton St., Newark, $25,895 and $21,201, respectively. A. B. Pierce is Clerk, Newark.

JOHNSTOWN, PA.—The City Council has passed an ordinance providing for the appropriation of $140,000 for street improvements. Lee Masterton is City Engr.

PHILADELPHIA, PA.—George R. Stearns, Dir. Pub. Wks., on Oct. 14, awarded the contract to M. & J. B. McHUGH, Witherspoon Bldg., at $16,400, for the work of grading and paving K St., from Kensington Ave. to Front St., and for grading and macadamizing Sedgeley Ave., from K St. to Kensington Ave.

McKEESPORT, PA.—Bids are asked by C. E. Soles, City Controller, until 4 p. m., Oct. 25, for repaving Sinclair St. and improving School Alley.

WASHINGTON, D. C.—Bids were received as follows on Oct. 15 by the Commissioners of the District of Columbia for improving 13th St., between Euclid St. and Park Road, (a) Commonwealth Construction Co., Times, Building, New York; (b) Atlantic Bitulithic Co., Richmond, Va.; (c) Cranford Paving Co., 2620 E St., N. W., Washington: Setting 6 × 20-in. granite or blue stone street curbing, (a) 30 cts., (b) 25 cts., (c) 27 cts.; setting 8 × 8-in. granite curbing, (a) 40 cts., (b) 32 cts., (c) 35 cts.; cobble or granite block gutters, (a) 40 cts., (b) 40 cts., (c) 33 cts.; vitrified brick gutters on gravel base, (a) 62 cts., (b) 85 cts., (c) 65 cts.; bituminous macadam paving, (a) 96 cts., (b) $1.28, $1.58 on Warren paving, (c) 79.5 cts.

FORT MYER, VA.—Bids will be received until Oct. 27 by the Board of Supervisors at Fort Myer Heights, for grading, curbing and paving King St. extended. George Garrett is County Engr., St. Elmo, Va.

NORFOLK, VA.—The contract for sheet asphalt on Westover and Graydon Aves., in all 14,000 sq. yds., has been awarded to BARBER ASPHALT PAVING CO., Land Title Bldg., Philadelphia, Pa., at $1.03 per sq. yd. Total, $27,020.

BURLINGTON, N. C.—We are officially advised that bids were received by James P. Montgomery, City Clerk, on Oct. 7, for the grading and macadamizing of several streets. The city has available for the purpose $25,000. A. F. Barrett is Mayor; the Carolina Engineering Co., L. C. Carter, Gen. Mgr., are Engrs. The contract has been awarded to BOWE & PAGE, of Savannah, Ga., and Charleston, S. C.

CHARLESTON, S. C.—Bids are asked by William M. Smith, Acting Ch. of Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 a. m., Nov. 6, for vitrified brick paving at the Navy Yard, Charleston. Specifications are on file at the office of Engineering News, New York.

ENSLEY, ALA.—The City Council on Oct. 7 awarded a contract for street and sidewalk improvements to the MALARKY CONSTRUCTION CO., at $49,239; also contract for a street roller to the KELLY-SPRINGFIELD ROAD ROLLER CO., of Springfield, Ohio, at $2,400.

NEW DECATUR, ALA.—The GOOD ROADS CONSTRUCTION CO., of Memphis, Tenn., has secured the contract to pave Sherman St., at $15,776. Other bids received were: George A. Peters, of Sycamore, Ill., $15,921; the Graves-Matthews Paving Co., Birmingham, $16,456; Goodrich & Crinkley, of Harriman, Tenn., $16,558.

MERIDAN, MISS.—The following bids were received on Sept. 30 by C. W. O'Leary for paving on 16th, 22d, 23d, 26th and 35th Aves. and Sixth, Seventh, Eighth and 14th Sts. with (a) brick, (b) asphalt, (c) wood block, (d) macadam, (e) granitoid, (f) bitulithic: West Construction Co., (a) $261,877, (b) $255,401, (c) $286,407; H. P. Streicher Co., (b) $254,620; Groves Matthews Co., (a) $269,729; Byron Souders Co., (a) $264,976, (c) $286,666, (e) $242,672; R. S. Blome, Unity Bldg., Chicago, Ill., (e) $270,869; J. Whitt Gurley & Co., (c) $295,306; Rubush-Dabbs Construction Co., (a) $263,120, (b) $270,100, (c) $278,920, (d) $146,920, (e) $238,880; Southern Bitulithic Co., Hibernia Bank Bldg., New Orleans, La., (b) $249,392, (c) $322,448, (f) $271,392; Southern Paving & Constructing Co., (a) $264,784, (c) $308,466; Filbert Paving & Construction Co., Pennsylvania Bldg., Philadelphia, Pa., (b) $242,774, (c) $304,514. W. G. Wetmore is City Engr.

NEW ORLEANS, LA.—The Committee on Finance has reported in favor of awarding the contract to pave with asphalt on Lowerline St., to the BARBER ASPHALT PAVING CO., Land Title Bldg., Philadelphia, Pa., at $9,648.

LOUISVILLE, KY.—The Board of Public Works has awarded the contract for paving a portion of Preston St. with granite block to HENRY BICKEL CO., 1048 Garden St., at $12,002.

CINCINNATI, OHIO.—Bids are asked by the Board of Public Service until noon, Oct. 27, for the improvement of Waterloo St., from Eastern Ave. to the P., C., C. & St. L. R. R., by grading, laying cement gutter, macadamizing the roadway and constructing the necessary drains and inlets; for the improvement of library lot (Warsaw Ave.) by grading, paving the roadway with macadam with special binder and finishing course and constructing cement sidewalks and steps; for the improvement of Victor St., from north curb of Warner St. to south property line of McMillan St., by grading, setting granite curbs, paving the roadway with brick and constructing the necessary drains and inlets. John J. Wenner is Clerk.

NEWARK, OHIO.—Bids will be received by the Board of Public Service until Oct. 26 for paving and curbing Pine St.; to include 5,685 sq. yds. complete brick pavement, 4,770 lin. ft. curb (sandstone or artificial stone), 25 ft. roadway, street railway in center of street. C. H. Wells is City Engr.; A. C. Gundlach is Clerk.

CHEVIOT, (Cincinnati post-office), OHIO.—Bids will be received until Oct. 25 by Charles Craig, Village Clk., for grading and macadamizing Trevor Ave.

STEUBENVILLE, OHIO.—Bids will be received until Oct. 27 at the office of the Board County Commissioners for grading, sewering and macadamizing the Bloomfield and Smithfield Free Turnpike Road. J. Francis McMillon is Chn. Road Comrs.

GARRETTSVILLE, OHIO.—MORGAN & WILLIAMS, of Ravenna, Ohio, have secured the contract for paving two streets in Garrettsville at about $10,000.

BRYAN, OHIO.—The County Commissioners on Oct. 8 awarded contract for grading and macadamizing 2.30 miles of road in Jefferson Township to G. W. FARISON, of Malinta, Ohio, at $13,585. Mr. Farison was the only bidder. The estimated cost of the improvement as made by the State Highway Department is $13,587. The section of road to be improved is between Montpelier and West Unity, in the north part of Jefferson Township. James C. Wonders, Columbus, Ohio, is State Highway Comr.

CLEVELAND, OHIO.—Bids are asked by E. H. McIntosh, Secy. Bd. of Public Service, City Hall, until noon, Oct. 27, for grading, draining, curbing and paving with common Medina stone and improving East 49th St., from the L. S. & M. S. Ry. to about 490 ft. northerly. Also for grading, draining, curbing, paving with 5-in. paving brick and improving East 86th St., from a point 1,179 ft. northerly from Euclid Ave. to a point about 1,319 ft. northerly from Euclid Ave.

LAPORTE, IND.—Bids are asked by the Commissioners of Laporte County until 10 a. m., Nov. 13, for the construction of a macadamized road in Michigan Township. Charles H. Miller is County Audr.

PETERSBURG, IND.—Bids are asked by the Commissioners of Pike County until 2 p. m., Nov. 2, for the construction of the following roads in Logan Township, Pike County: Petersburg and Dongola road, a total distance of one mile and 3,909 ft.; Miller's bridge road, a total distance of two miles and 215 ft.; Hosmer and Carr's Mill road, a total distance of 5,183 ft.; Petersburg and Rumble road, a total distance of one mile and 986 ft.; Petersburg and Dongola road, a total distance of one mile and 1,270 ft.; Miller's bridge road, a total distance of three miles and 3,122 ft. Frank R. Bilderback is County Audr.

INDIANAPOLIS, IND.—The Board of Public Works has awarded the following paving and improvement contracts: First Alley west of East St., from Merrill St. to Stevens Pl., with brick roadway, to the CITY CONSTRUCTION CO., at $1.49. For the improvement of Twelfth St., from Oregon St. to first alley east of Brooks St., with cement walks and curbing, to J. D. HOSS, $1.24. Grace, from Newton to English, with curbing, to J. HARRY ROBERTS, 56½ cts. Christian, from Newton to English, with curbing, to J. HARRY ROBERTS, 56½ cts. Oakland, from Newton to English, with curbing, to J. HARRY ROBERTS. 56½ cts. Washington Boulevard, from 36th to 40th Sts., with cement walks, to JOHN ARNOLD, 84 cts. Randolph, from Washington to New York, with cement walks, approach walks and sodded lawns, to GEORGE W. SHELBY & CO., 51 cts. for cement walks, 32 cts. for approach walks and 11 cts. for sodded lawns. Sutherland, from 30th St. to first alley north of Fleet, with cement walks and curbing, to LACKEY BROS., $1.27. Local sewer in Burgess, from the center of Collett, to a point 1,575 ft. east of the center of Collett, to the AMERICAN CONSTRUCTION CO., $1.53. Local sewer in 36th St., from Pennsylvania to Central, to the SHEEHAN CONSTRUCTION CO., $1.59.

CROWN POINT, IND.—Bids are asked by the Commissioners of Lake County until noon, Nov. 1, for the construction of a gravel road in North Township, known as the Riley Road. Charles A. Johnson is County Audr.

MARION, IND.—Bids are asked by A. Y. Stout, Audr. of Grant County, until 2 p. m., Nov. 1, for the construction of 15,840 ft. of gravel road in Monroe Township.

LA FAYETTE, IND.—Bids will be received by the Commissioners of Tippecanoe County until 10 a. m., Nov. 4, for the construction of a gravel road in Tippecanoe Township. John P. Foresman is County Audr.

ROCKVILLE, IND.—Bids are asked by the Commissioners of Park County until 1.30 p. m., Nov. 2, for the construction of two gravel roads, including the bridging and draining thereof, in Raccoon Township. H. A. Henderson is County Audr.

BLOOMINGTON, IND.—Commissioners of Monroe County will soon ask for bids for improving the Harrodsburg hill. This hill has a steep grade.

LOGANSPORT, IND.—Bids are asked by the Commissioners of Cass County until 10 a. m., Nov. 3, for the construction of a gravel road, known as the Gingrich Road in

Eel River Township. George W. Cann is Audr. of Cass County.

Bids will be received by the Commissioners of Cass County until 11 a. m., Nov. 3, for the construction of a gravel road in Boone and Jefferson Townships. George W. Cann is County Audr.

We are officially advised that bids were received on Oct. 12 by the Department of Public Works, Charles Ringleben, Chn., for grading, graveling and bordering a portion of Wright St. The contract has been let to GEORGE W. PALMER.

FOWLER, IND.—Bids are asked by the Commissioners of Benton County until 1 p. m., Nov. 2, for the construction of a gravel road in Pine Township, known as the Sheetz Road. This contract will include several bridges, culverts and tile drainage. Lemuel Shipman is County Audr.

WABASH, IND.—Bids are asked by Freemont McLees, City Clerk, until 6 p. m., Nov. 8, for the improvement of the first alley east of Wabash St., from Main St. to the first alley north of Main St., in the city of Wabash.

DELPHI, IND.—Bids are asked until noon, Nov. 1, by M. G. Haun, County Audr., for grading, graveling, draining and all other work necessary to construct and complete a gravel road in Jackson Township, Carroll County.

EAST ST. LOUIS, ILL.—We are officially advised that the following contracts have been let for street improvements, bids received Oct. 7: (a) Lincoln Ave., from C. R. R. to 25th St., MEYER & THOMAS, at $14,126; (b) Bowman Ave., Seventh St. and Exchange Ave., REEB BROS., at $20,286; (c) Eleventh St., from Missouri to Division Ave., GEISEL CONSTRUCTION CO., 620 Chestnut St., St. Louis, Mo., at $6,091. Engineer's estimates: (a) $15,350, (b) $23,596, (c) $6,682.

PEKIN, ILL.—A. D. THOMPSON, Y. M. C. A. Bldg., Peoria, has secured the contract to pave portions of South Fourth and South Fifth Sts. at approximately $27,235 and $18,026, respectively.

BATAVIA, ILL.—A. E. PRICE, of Elgin, has secured the contract for paving East Wilson St. with macadam, at $8,500.

CHICAGO, ILL.—Bids will be received until Oct. 22 by the Board Local Improvements for constructing cement sidewalks on West Adams, Fletcher, Fulton and various other streets. Charles A. V. Standish is Secy.

*BRIDGEPORT, ILL.—The Bd. Local Improvements is stated to have awarded contracts for 22,000 sq. yds. brick paving to O'DONNELL BROS. & CO., of Vincennes, Ind., for $46,539.

MARSHALL, ILL.—The contract for paving Sixth St., from Chestnut St. on the south to Mulberry St. on the north, has been awarded to GEORGE MILLER, of Lebanon, Ind., by the Board of Local Improvements. The contract price for the ten blocks of pavement to be constructed was $23,600. The next lowest bid was submitted by Allen Parrish, of Paris, Ill., whose figures were $23,895. The Indiana paving block will be the material used.

EVANSTON, ILL.—The Board of Local Improvement intends to macadamize the following streets: Dewey Ave., from Emerson to Crain Sts.; Dartmouth Pl., from Sheridan Road to Orrington Ave.; Cook St., from Sheridan Road to 500 ft. east; Gaffield Pl., from Sherman to Maple Aves.; Pratt Court, from Foster to Simpson Sts.; Simpson St., from Sherman to Ridge Aves.; Asbury Ave., from Main to Crain Sts.; Evanston Ave., from Noyes to Colfax Sts.

MADISON, WIS.—Bids are asked until 2 p. m., Nov. 10, by the Board of Public Works at the office of O. S. Norsman, City Clerk, for improving Washington Ave., between Pinkney and Baldwin Sts.

TWO RIVERS, WIS.—Bids are asked by the Board of Public Works until 7.30 p. m., Nov. 19, for grading, curbing and paving with cement pavement all that part of Washington St. lying between the north line of 22d St. and extending to the north line of 25th St.

KNOXVILLE, IOWA.—The KETTLE RIVER QUARRIES CO., Second Bank Bldg., Minneapolis, Minn., has secured the contract to pave eight blocks with creosoted block at $37,182. Morrison & Turner bid $37,521 for this work.

ST. PAUL, MINN.—Bids are asked by the Board of Public Works until 2 p. m., Oct. 25, for grading St. Anthony Ave., from Cleveland to Cretin Aves. Peter Van Hoven is Pres.; L. W. Rundlett is City Engr.

WICHITA, KAN.—Paving contracts are awarded as follows: To the CLEVELAND TRINIDAD PAVING CO., 420 Lakeside Ave., N. E., Cleveland, Ohio, for paving portions of South Market St., at $1.04 per sq. yd.; A. B. MURDOCK, at $1.98 per sq. yd., and North Market St. at $2 per sq. yd.; to the KANSAS BITULITHIC CO., Topeka Ave., at $2.15 per sq. yd.

BELLEVILLE, KAN.—Bids are asked until 6 p. m., Oct. 26, for paving Block No. 20; also for curbing and guttering Blocks Nos. 16, 17, 20 and 21.

LINCOLN, NEB.—The following bids were received for paving portions of Seventh and M. Sts.: M. Ford, $13,787; National Construction Co., of South Omaha, $12,959, and Abel & Roberts, of Lincoln, $13,202 for Pittsburg brick, and $12,959 for Phoenix block.

JEFFERSON CITY, MO.—Bids are asked until 4 p. m., Oct. 25, by the City Clerk, for grading, guttering, macadamizing, screening and rolling Ashley St., from Washington to Jefferson Sts. E. F. C. Harding is City Engr.

LITTLE ROCK, ARK.—An estimate of $30,402 has been placed on the improvement work in the West 14th St. Improvement District by E. A. Kingsley, Supt. of Pub. Wks. The estimate has been submitted to the Commissioners of the district, and has been reported to the Council by the Commission. The district contemplates paving 14th St. with macadam, from Main to Brown Sts. A total of 33,000 yds. of macadam would be required. The district would also be curbed and guttered.

TEXARKANA, TEX.—On Oct. 9 the County Court of Bowie County conditionally let the contract to J. W. MAXCY & CO., of Houston, Tex., to build 42 miles of graded and graveled roads in the territory immediately surrounding the Texas side of Texarkana. The work is to begin in 30 days after the contract is signed and to be finished within eighteen months. Cost, $175,000.

FORT SAM HOUSTON, TEX.—We are officially advised that the DANIELS-LYST CO., Union Bldg., Anderson, Ind., has been awarded contract for construction of walks and drains and for grading at Ft. Sam Houston, San Antonio, Tex. Contract price, $23,919. The company is in the market for cement, sand and sewer pipe.

STILLWATER, OKLA.—Bids are asked by the Mayor and City Council until Nov. 2 for paving about 71,000 sq. yds. of street with asphalt. C. A. Wood is City Engr.

TACOMA, WASH.—W. C. Raleigh, City Engr., is preparing plans and specifications for paving on Yakima Ave., from Sixth to South 27th Sts. Probable cost, $128,000.

SEATTLE, WASH.—The Board of Public Works of the City of Seattle, has awarded the following contracts for street improvement work: Franklin Ave., etc., sewers, to C. W. CROCKETT & CO., $4,458; West 57th St., etc., concrete sidewalks, etc., to PEABODY BROS., $13,424; Tenth Ave. Northeast, water mains, to PAUL STEENSTRUP, $3,022; Boren Ave. North, etc., planking, J. L. STANLEY, $18,133; Fifth Ave. South, etc., planking, L. P. INGRAM, 3820 Seventh St., $2,887.

BELLINGHAM, WASH.—The contract for paving a portion of Champion St. is reported awarded to C. G. BURNET, at $29,488.

SOUTH BEND, WASH.—Bids will be received until Oct. 26 by Henry L. Bowlby, Secy. State Highway Bd., at Olympia, for clearing, grubbing, grading, draining and bridging State Aid Road No. 2 at South Bend.

HOLLYWOOD, CAL.—The City Trustees have awarded to the BARBER ASPHALT PAVING CO., Land Title Bldg., Philadelphia, Pa., the contract to improve a portion of Prospect Ave., at about $100,000.

SALT LAKE CITY, UTAH.—We are officially advised that contract for Paving Extension No. 31, bids received Oct. 10, has been let to P. J. MORAN, at $54,248. Louis C. Kelsey is City Engr.

CALDWELL, IDAHO.—Bids will be received Oct. 25 for bitulithic pavement, to cost about $127,000. C. L. Shorb is City Clerk.

MANUFACTURING PLANTS.

FALL RIVER, MASS.—The Directors of the Merchants' Mfg. Co. have under consideration plans for adding to the main building and adding to the capacity of the plant. Final action has not been taken. The idea of the management is to extend the main building north to Bedford St., adding to the operating plant sufficiently to bring the total capacity up to 150,000 spindles. There are now 133,100 spindles in operation in the three mills, 6,912 of them mule spindles. The proposed addition, if made, will increase the corporation's output about 12%.

EAST BOSTON, MASS.—The HENNEBIQUE CONSTRUCTION CO., 1170 Broadway, New York, has secured the contract, amounting to $300,000, to build two reinforced-concrete cotton mills at East Boston, Mass., for the Maverick Mill Corporation. One of the buildings will be three stories in height and 530 × 130 ft. in size, while the other will be two stories in height and will cover a ground area 230 × 220 ft. The Hennebique Co. also will build for the same concern an office building and power-house. The details of the contract for the latter buildings have not yet been arranged.

BOSTON, MASS.—Bids were received as follows on Oct. 16, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for improving the rope walk building at the Boston Navy Yard: H. P. Converse & Co., 88 Broad St., Boston, Mass., $11,800, $10,100, $14,800; C. M. Leach, P. O. Box 2285, Boston, Mass., $11,583, $9,683, $8,973; Marr Bros. & Stewart Co., 95 Milk St., Boston, Mass., $10,681, $8,901, $10,400.

LEOMINSTER, MASS.—Building operations are planned by the Sterling Comb Co. It is to add a brick storehouse, 44 × 40 ft., and 20 ft. high.

SOMERVILLE, MASS.—The Boston & Maine R. R. Co. has placed a contract with the ABERTHAW CONSTRUCTION CO., 8 Beacon St., Boston, for the heavy concrete foundations of the locomotive shops to be erected on the marshes at Somerville. This is the beginning of the new plant. Work will begin immediately. H. Bartlett is Gen. Mech. Supt., Boston.

NEW BRITAIN, CONN.—The Stanley Rule & Level Co., it is reported, will erect an addition, 100 × 60 ft., six stories high, with a wing 80 × 60 ft., six stories high.

WINSTED, CONN.—E. E. Benedict, Arch., of Waterbury, has prepared plans for an addition to the plant of the Winsted Hosiery Co. The addition will be built of brick, 32 × 90 ft., and will be four stories high. D. S. WALDRON, of Winsted, has the contract for the foundation work. The contract for the superstructure will not be let until spring.

HARTFORD, CONN.—The B. H. Hibbard Co., 162 Main St., New Britain, will erect a factory in Pliney St., Hartford, for the Sachs Co. Brick, heavy mill construction will be used and the structure will be 48 × 153 ft. The plumbing, heating and electric work will be ready for estimates at once. George B. Allen, 20 Ford St., is Arch.

BRIDGEPORT, CONN.—The Weidlich Bros. Mfg. Co., Sterling St. and Noble Ave., Bridgeport, is having plans prepared for the erection of a plant on the site which was purchased some time ago. It is reported that the main building will be two stories high, of brick and about 140 ft. in length.

The Weidlich Bros. Mfg. Co., makers of plated goods, is having plans drawn for a new plant. The main factory will be a brick structure about 140 ft. long.

Work has begun on a foundry building for the Pequonnock Foundry Co., on Fifth St. The building will be of brick 75 × 120 ft., two stories high.

SOUTH NORWALK, CONN.—We are officially advised that enlargements are planned for the Simons factory by Cluett, Peabody & Co., of Troy, N. Y., manufacturers of men's shirts and collars, who recently purchased the plant. The factory now has three stories, of concrete block construction, and two more will be added. The company also will start as soon as practicable the erection of a concrete dry-rooom building on the north side of the plant. This will be one story, 70 × 22 ft. The contract has been let to TRACY BROS. CO., 52 Benedict St., Waterbury, Conn. S. M. Green, Inc., Springfield, Mass., is Arch.

UTICA, N. Y.—The Utica Fine Yarn Co. has bought a plot of land adjoining the Foster Box Board Co.'s plant in West Utica, where it is proposed to build, as soon as possible, a mill to be occupied by the company which has just been formed. The lot is large enough to accommodate a 20,000 spindle mill, but only about one-half that number of looms will be installed at present. The company has options on adjoining land, where a 60,000-spindle mill can be built. It is reported that the capital stock of the company, $225,000, has all been placed. A. K. Searls will have charge of the new mill, and Pardon B. Sanford will be Supt.

LYONS, N. Y.—The Lyons Printing Co. has made arrangements for the erection of a printing plant. The building will be one story high, of cement.

BUFFALO, N. Y.—We are officially advised that the Rice & Adams Dairy Machinery Co. will add one story to its concrete block fireproof factory building, 50 × 150 ft., at Chandler St. and New York Central R. R. Belt Line.

The Spencer Kellogg Co., Michigan & Genson Sts., has awarded contract to the STEEL STORAGE & ELEVATOR CONSTRUCTION CO., 730 Main St., for erection of a 1,000,000-bushel grain elevator, 56 × 285 ft., 155 ft. high, at Michigan and Ganson Sts. and the Buffalo River. It will be constructed of structural steel with reinforced-concrete bins. Cost, with conveying and elevating equipment, $275,000.

The Auto Car Mfg. Co., Geo. W. Atterbury, Vice-Pres., has let contract to WILLIAM HENRICHS SONS, 193 Spring St., for a 1 and 2-story brick addition, 60 × 190 ft., to its factory at Elmwood and Hertel Aves. and Erie R. R. Cost, $35,000. Green & Wicks are Archs., 110 Franklin St. Considerable equipment of machinery will be installed.

The Riverside Bronze & Mfg. Co. will erect foundry building and machine shop at Gull St. and the New York Central R. R. Belt Line, 50 × 96 ft. × 30 ft. high, and 50 × 60 ft., respectively. Structural steel and corrugated iron will be used. Patrick F. Woods is Mgr., 892 Ellicott Sq. Bldg.

The Jacob Dold Packing Co. will erect a 1-story steel and frame car repair shop at its plant at Howard St. and New York Central R. R. Edward C. Dold is Secy., 745 William St.

The American Body Co., Edward A. Selkirk, Pres., 1257 Niagara St., will build a 2-story addition to its plant at 1261 Niagara St., of brick and steel construction.

The American Radiator Co. has let contract to the DUROLITHIC CO., 460 Ellicott Sq. Bldg., for construction of 3-story and basement Thermal Research Building, 122 × 240 ft., of concrete and enameled brick, to be erected at its "Pierce Plant," Elmwood Ave. and New York Central R. R. Belt Line. Cost, $115,000. Noted last week under Buildings.

The Upson Oil Co., 406 Marine Bank Bldg., is having plans prepared for a barrel factory to be erected at Northland Ave. and the New York Central R. R. Belt Line.

BUFFALO, N. Y.—We are officially advised that the DUROLITHIC CO., 460 Ellicott Sq., Buffalo, N. Y., has been awarded the contract for an addition to the Sterling Engine Co.'s plant, 70 × 120 ft., three stories in height, with brick walls, steel columns, beams and girders and reinforced floors. Cost, $35,000. The owners will do the plumbing, heating and electrical work.

POUGHKEEPSIE, N. Y.—The contract for the erection of the plant of the Fiat Automobile Co., of 1786 Broadway, New York, at Poughkeepsie, has been awarded to the TORRINGTON BUILDING & CONSTRUCTION CO., of Torrington, Conn. The work must be completed by Jan. 1 and the contract calls for everything but steam heating and the sprinkler. A number of changes have been made in the plans. Instead of a 2-story structure, the buildings have been given more ground space. However, the walls will be made of sufficient strength to support two more stories when the volume of business demands the expansion. As it is there will be nearly 3,000 sq. ft. more of space than originally planned for. Hedman & Schoen, 25 West 42d St., New York, are Archs.

TONAWANDA, N. Y.—We are officially advised that the DUROLITHIC CO., 460 Ellicott Sq., Buffalo, N. Y., have been awarded the contract for a paint mill for the National Roofing Co., Tonawanda, N. Y. The building will have three stories and basement, 78 × 180 ft., exterior walls of brick, balance of reinforced concrete, elevators, plumbing and heating. Cost, approximately, $80,000.

The McKinnon Chain Co., Lachan E. McKinnon, Pres., 252 Amherst St., Buffalo, has let contract to MORRIS & ALLEN, Builders' Exchange, Buffalo, for erection of a factory, 80 × 304 ft., one story high and power-house, 30 × 40 ft., to be built of structural steel, brick and concrete, at the Erie and New York Central Railroads, Tonawanda, N. Y.

JAMESTOWN, N. Y.—The [illegible]hlstrom Metallic Door Co. has prepared plans and is receiving bids for a 1-story brick addition to its factory, 60 × 120 ft., to be used as a paint shop.

SYRACUSE, N. Y.—John [illegible] Clancy, 239 North Salina St., has let contract to DAWSON BROS., Keib Bldg., for construction of a manufacturing plant and warehouse at Belden Ave. and Sand St. The warehouse will be 66 × 120 ft.; mill building, 20 × 61 ft.; boiler-house, 20 × 60 ft. and office building, 42 × 60 ft. The building will be of paragon plaster block and steel construction. Cost, $75,000. Alfred T. [illegible]ylor, Syracuse Savings Bank Bldg., is Arch.

NIAGARA FALLS, N. Y.—The Defiance Wall Paper Co., A. J. Adams, Secy., will build a manufacturing plant, [illegible]0 × 440 ft., at the corner of Walnut Ave. and Third St., for the production of wall paper from wood pulp.

The U. S. Electric Lighting & Heating Co. has acquired a site of 18 acres on the lands of the Hydraulic Power & Mfg. Co., and will erect a large plant upon same for the manufacture of electric appliances, storage batteries and electric lighting systems for railway trains, etc., etc.

The Niagara Pulp Board Co. has let contract to the BRAAS BROS. CO., 1110 Whitney St., for erection of two 1-story factory buildings at Walnut Ave. and New York Central R. R. Cost, $25,000.

PHILADELPHIA, PA.—Plans have been prepared for an addition to the plant of C. H. Masland & Sons' Amber Carpet Mills, Amber and Westmoreland Sts. This addition will consist of a brick building 70 × 134 ft. area and one story high.

The WILLIAM STEELE & SONS CO., 1600 Arch St., has a contract to build an 8-story factory, 75 × 125 ft., at the southeast corner of Twelfth and Wood Sts., for the Smaltz-Goodwin Co., manufacturers of shoes. The contract price is $150,000.

The WAYNE CONSTRUCTION CO. is to build a 4-story manufacturing plant, 125 × 50 ft., a coal conveyor and shipping house at the southeast corner of 31st and Thompson Sts., for J. M. H. Walters, at a cost of $38,000.

NEWELL, PA.—Contracts for the construction of the buildings for the plant of the General Chemical Co. of New York, at Newell, Pa., on the Pittsburg & Lake Erie R. R., near Fayette City, have been awarded to the NICOLA BUILDING CO., Farmers Bank Bldg., Pittsburg. More than $1,000,000 will be spent on the buildings. Seven buildings will be erected. The buildings will be so arranged that the raw product will be placed in one end of the plant and finally be packed for shipment at the other end. The plant will cover 30 acres.

HOMESTEAD, PA.—The Carnegie Steel Co. has awarded a contract to the AMERICAN BRIDGE CO., Frick Bldg., Pittsburg, for the erection of the new steel building for the new open hearth furnace of the Homestead steel works, that are to be added to Open Hearth Department No. 4. This will require 1,500 tons of steel which will be rolled at the Homestead steel works, and fabricated at the plant by the American Bridge Co. The task of preparing for the new plant has been completed. The steel work hotel, the Boys' Brigade armory and the restaurant have been removed.

PITTSBURG, PA.—Improvements aggregating more than $500,000 will be made by the Spang & Chalfant Co. in Etna as soon as the Borough Council closes Butler St. from a point near Bridge St. to the Baltimore & Ohio R. R. tracks. The company owns all the adjoining property along this thoroughfare, and if the borough closes the street the company will build a new street through the Spang plan of lots, bridge Pine Creek and connect with Butler St. The company is planning to build a large machine shop along Bridge St. also.

PHILADELPHIA, PA.—Heacock & Hokanson have prepared plans for a 7-story mill and warehouse, 84 × 250 ft., on Bristoe Pike, Holmesburg, for W. H. Grudy & Co., 108 South Front St.

*FORT DU PONT (Delaware City post-office), DEL.—Bids are asked by the Constructing Q. M. until 11 a. m., Nov. 16, for construction (including plumbing, steam heating, electric wiring and fixtures) of a brick bakery at Fort Du Pont, Del.

BALTIMORE, MD.—Contracts have been awarded to JOSEPH SCHAMBERGER for the erection of the proposed building for the Baltimore Enamel & Novelty Co., at the foot of Allen St.

HAGERSTOWN, MD.—See item under Buildings.

WADESBORO, N. C.—A plan is being perfected at Wadesboro, N. C., for the organization of a company to build a cotton factory. This company will have a capital stock of $300,000 and intends to build a plant for spinning and weaving high grade cotton cloth. The Wadesboro people interested include T. L. Caudle, W. E. Brock, J. D. Horne, C. M. Burns, W. T. Rose, U. B. Blalock and R. D. Ross. Robert L. Steele, Pres. of the Steele Mills, Rockingham, N. C., is interested.

GRAHAM, N. C.—The River Falls Cotton Mill Co. has been incorporated with a capital stock of $200,000 for the purpose of building a water-power-electric plant and erecting a cotton factory to be operated by electricity transmitted from the water power plant. This is the project of J. W. Menefee, of Graham, N. C., who is reported as planning the enterprise. Mr. Menefee is Pres.; J. D. Kernodle is Vice-Pres., and R. N. Crook is Secy. River Falls is near Graham, and construction of the combined plants is to begin soon.

CANTON, N. C.—D. J. Carpenter, Pres. of the Newton Hosiery Mills, of Newton, N. C., is interested in a plan to build a hosiery knitting mill at Canton, N. C. He proposes the organization of a company capitalized at $50,000, and endeavors are now being made to secure the required funds.

JAMESTOWN, N. C.—The Oakdale Cotton Mills of this town will double the capacity. This enlargement will require the erection of an additional building and the installation of probably several thousand spindles, with looms to match, at a cost of from $75,000 to $100,000. The company is operating 5,344 ring spindles and accompanying equipment on the production of cotton yarns, which are dyed and finished at the plant. W. H. Ragan is Pres.

ANNISTON, ALA.—We are officially advised that at a recent meeting of the Board of Directors of the Anniston Yarn Mill, James T. Gardner, Gen. Mgr., was informed that the stockholders of the company had authorized an enlargement of the plant so as to double its capacity. Orders will be placed at once for the machinery necessary, and work on the addition to the building will be undertaken in March, and when it is completed 5,000 additional spindles will be placed in operation, increasing the value of the mill to over $200,000. Noted on Oct. 7.

KNOXVILLE, TENN.—It is stated that Armour & Co. will expend about $15,000 in remodeling and building an extension to its present building at 115 an 117 Jackson Ave. The company has awarded the contract to DAVID GETAZ, SON & CO., who will begin work at once upon the addition and the remodeling of the building in this city. The contractors will erect three brick smokehouses, three stories high, concrete basement, under the entire building and a number of other improvements. The property owned by Armour & Co. fronts on Jackson Ave., east of Central St., running back to the tracks of the Southern Ry. Co.

COLUMBUS, OHIO.—The Reynolds Baking Co., W. H. Reynolds, Pres., is having plans drawn for an addition to its baking plant in Cleveland Ave. The addition will be three stories in height and will front in Buckingham St. It will be connected with the present building. The new building will be finished throughout the interior in glazed brick and every precaution will be used to make it absolutely sanitary. Construction of the new plant will be started within a short time.

ASHTABULA, OHIO.—By a vote of Ashtabula's electors on a bond issue proposal, this city was assured on Oct. 14 of the removal to Ashtabula of the St. Clair plant of the Great Lakes Engineering Co. and the erection here of a $1,000,000 shipbuilding plant, according to press reports. The proposal is to issue $390,000 in bonds to straighten the river, a first condition of the establishment of the plant. The company had signed a contract to come here if the bond issue were approved by the voters.

NEW CASTLE, IND.—We are officially advised that the Union Trust Co. of Indianapolis, New Castle & Toledo Ry. Co. has awarded contract to I. W. MILLIKAN, Law Bldg., Indianapolis, to erect a 1-story, fireproof, brick and steel building, 75x100 ft., to be used for car barn and repair shop. Cost, $10,000.

SHELBYVILLE, IND.—The Clark Motor Car Co. has leased ground on which to construct an addition to its plant, doubling the capacity. New machinery will be installed.

NEW ALBANY, IND.—The Robinson Norton Co. announces that the factory recently destroyed by fire will be rebuilt at a cost of about $50,000. The new plant will be equipped with electric power machinery.

ANDERSON, IND.—The American Steel & Wire Co. has ordered plans on which bids will be invited, for the construction of an addition to the rod and wire mills. W. E. Stone, Asst. Gen. Mgr., will have charge of the arrangements for enlarging the plant.

DECATUR, IND.—The Decatur Motor Car Co. has been incorporated to build, establish and equip a large factory to manufacture automobiles and parts thereof. Julius Haugh, John S. Bowers and C. C. Shafer are Dirs.

DUPONT, IND.—The saw mill plant owned by Clifford Sprong, recently destroyed by fire, will be rebuilt on a larger scale. The plant will be equipped throughout with new engines, boilers and machinery.

INDIANAPOLIS, IND.—The Irvin Automobile Top Mfg. Co. has ordered plans for the erection of a factory on Capital Ave. and McCarty St.

Charles B. Riley, Gen. Mgr. of the Indiana Motor & Mfg. Co., recently incorporated, is in the market for boilers, motors and a general complete electric power equipment for a factory to be built in Franklin. General office, 717 East 22d St., Indianapolis.

CHICAGO, ILL.—The Chicago Railways Co. is to build a 1-story car shop on Kedzie Ave. The building will be 500 × 456 ft., and will cost $200,000. The company also has a building permit for a 2-story paint shop to be built on Park Ave. at an estimated cost of $150,000. R. R. Hertzog is Gen. Supt.

CHICAGO, ILL.—For the use of the Cassidy-Fairbanks Co., manufacturers of hardware specialties, W. H. Godair, 125 La Salle St., will erect a factory building on La Salle St., between 61st and 62d Sts. The building will be of brick, mill constructed, 58 × 150 ft., with a wing 50 × 106 ft., and there will be a boiler house 34 × 36 ft. The plant will cost $65,000.

Work will begin soon on the construction of a manufacturing plant at the southwest corner of Kedzie Ave. and 31st St. for the Liquid Carbonic Co., 67 Wells St. It will cost about $400,000. The main building will be of reinforced concrete, four stories high and occupying a ground area of 316 × 89 × 630 ft. There will be two 1-story buildings, to be used as a marble mill and a wood mill.

CHICAGO, ILL.—According to local press reports, interests which have closed a deal for the purchase of property fronting 135 ft. on Ontario St., 300 ft. west of the Lake Shore Drive, are to begin operations immediately on the foundations for a 10-story modern manufacturing building to be erected on the lot. Three stories of the structure are to go up at once, and the entire building probably will be completed within a year. The property is in what is known as the St. Clair wholesale and manufacturing district. It was sold by the Bowes Investment Co., 108 La Salle St., for William A. Walker, of Kenosha, Wis., and Robert R. Bailey, of Chicago, for a cash consideration approximating $21,866. M. I. Rosenbaum, 143 Dearborn St., has taken it over for clients who are to put up the building. It lies between the new 6-story building of the W. K. Cowan Furniture Co. and the A. C. McClurg Publishing Co. building.

MENASHA, WIS.—Plans have been accepted for improvements to be made at the plant of the Sailer-Whitmore Machine Co.

MASON CITY, IOWA.—The Mason City & Clear Lake Ry. Co. has awarded the contract for the construction of its car house, at Emery, to FRED LIPPERT, Mason City. The building will be built of concrete, 210 × 55 ft.

ST. PAUL, MINN.—Postle, Mahler & Denson, Archs., St. Paul, are preparing plans for a 2-story concrete printing establishment for the H. W. Kingston Co., to be built on Minnesota St., near Ninth St. It will be modern, 75 × 75 ft., and will cost $25,000.

LAWRENCE, KAN.—The Lawrence Street Ry. Co. has let the contract for its proposed car house to C. E. VARNUM, of Lawrence. The building is to be located on South Massachusetts St. and will be of concrete and steel, 70 × 190 ft. In addition to the stalls for the cars there are to be offices and rooms for the employees.

TOPEKA, KAN.—The Topeka Ry. Co. has been given permission to build an addition to its car house on Jackson St., Topeka. The new building will be 75 × 104 ft., and will cost about $8,000. L. E. Meyers, Monadnock Block, Chicago, is Gen. Mgr.

ST. LOUIS, MO.—W. S. Shaft, Pres. of the Shaft-Pierce Shoe Co., of Fairbault, Minn., has been in St. Louis looking for a location for a plant to manufacture infants' shoes. He proposes to erect a $250,000 plant, similar to the one at Faribault.

SEATTLE, WASH.—Plans have been completed for a car barn to be erected at 1316 East Jefferson St. by the Seattle Electric Co. The building will be one story high, 91 × 168 ft., of brick, frame and concrete construction and will cost about $25,000. A. L. Snyder is Mech. Engr.

MONTREAL, QUE.—Press reports state that the Canadian capitalists who compose the Canadian Shipbuilding & Drydock Co. are in negotiation with one of the English firms with a view to the establishment of a plant here. The site has not been definitely selected, but Montreal is favored if suitable premises and facilities can be obtained. The chief Canadian capitalists interested in the Canadian Shipbuilding Co. are M. J. O'Brien, J. A. O'Brien and J. E. Roy. The British firm concerned is reported to be that of Vickers, Maxim & Son.

NIAGARA FALLS, ONT.—We are officially advised that building is to be added to the Niagara Falls branch of the International Acheson Graphite Co. The structure is to be 50 ft. wide by 105 ft. long, and the contract has been awarded to W. S. HOMAN, of Niagara Falls, Ont. The building will contain a grinding plant, in which the lubricating, electrotype, and other grades of powdered graphite will be prepared for market. Also it will contain a stock room for package goods, such as graphited greases, powders, etc.

FORT WILLIAMS, ONT.—The Ogilvie Milling Co., of Montreal, Que., is having plans prepared in the head office for alterations and additions to the mill here, which will cost $80,000.

WINNIPEG, MAN.—Plans are being prepared for the Ogilvie Milling Co., of Montreal, Que., for additions to the mill here, which will double its capacity and bring the output of the mill up to 6,000 bbls. daily. F. W. Thompson is Gen. Mgr., Montreal, Que. The Ogilvie Milling Co., of Montreal, Que., has decided to erect 60 grain elevators in Western Canada in time to handle next year's crop.

EDMONTON, ALTA.—The Edmonton Radial Ry. Co. expects to place contracts during the next six months for erecting a car house, with a capacity of 20 cars. Charles P. Taylor is Gen. Mgr. and Ch. Engr.

VANCOUVER, B. C.—The Sumner Iron Works Co., of Everett, Wash., is having plans prepared for works here, to be in operation within six months and to cost $300,000.

MISCELLANEOUS CONTRACTS.

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

SUBWAY.—Guelph, Ont.—See item under Buildings.

*STEEL AND CONCRETE DOCK.—Cristobal, Canal Zone. See under U. S. Possessions.

DITCH.—Connersville, Ind.—Bids will be received by Karl L. Hanson, Drainage Comr., until 4 p. m., Oct. 28, for construction of a ditch or drain.

DOCK.—Fort William, Ont.—HENRY SMITH and J. J. HENEY, Ottawa, Ont., have been awarded contract by the Dominion Government for a dock here, to cost $350,000.

DRAINAGE.—Rensselaer, Ind.—The Commissioners of Jasper County are planing to let a contract for lowering and straightening the channel of the Kankakee River. Estimated cost, $270,000.

*MACHINERY. — Cincinnati, Ohio.—Bids will be received by Lieut.-Col. J. G. Warren, Corps Engrs., U. S. A., until 2 p. m., Nov. 15 for furnishing and installing operating machinery at Dam 37, Ohio River.

UNDER PASS.—Bristol, Conn.—The New York, New Haven & Hartford Railroad Co. has let the contract for the construction of an under pass at Henry St. to O'CONNOR & EDWARDS, of New Haven, Conn.

STEAMER.—New York, N. Y.—Bids are asked until 11 a. m., Oct. 26, by the Department of Correction, for furnishing all the labor and materials required for construction and completion of a 72-ft. single-screw steamer.

MONUMENT.—St. Paul, Minn.—The Governor John Albert Johnson Memorial Commission, of which Hon. C. D. O'Brien is Pres., will erect a monument or mausoleum costing $25,000. The site will be either here or at St. Peter, Minn.

STEEL BARGES.—Pittsburg, Pa.—The American Steel & Wire Co. has awarded to the AMERICAN BRIDGE CO., of Ambridge, Pa., contracts for building ten steel barges for river transportation, representing an outlay of approximately $50,000.

DRAINAGE DITCH.—Kansas, Ill.—Bids will be received by the Drainage Commissioners of District No. 2, until 10 a. m., Oct. 30, for constructing a drainage ditch in this district. J. T. Laughead is Clk. Comrs. George V. Dole is Engr., Paris, Ill.

WHARF.—Boston, Mass.—Bids were received by the Board of Harbor and Land Commissioners, State House, on Oct. 8 for building an oak pile wharf at South Boston flats. Contract has been awarded to the L. ROBERT KIDD CO., of Boston, at $10,101.

HARBOR, WHARF.—New London, Conn.—The MITCHELL CO., 621 W. 24 St., New York, has been awarded contract by the Constructing Quartermaster, New London, for constructing inland harbor and wharf at Plum Island, Long Island Sound, at $55,000.

FIRE HOSE.—Harrisburg, Pa.—Bids are asked by C. A. Garverich, Ch. Engr., Fire Dept., until noon, Oct. 25, for 2000 ft. of good quality fire hose, which is to be 2½ inches internal diameter and to stand a pressure test of 400 pounds to the square inch.

DREDGING.—Charleston, S. C.—Bids are asked until 11 a. m., Nov. 20, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for dredging at the navy yard, Charleston ($22,000 is available for this work). Specifications are on file at office of Engineering News, New York.

DREDGING.—Boston, Mass.—Bids were received on Oct. 1 by the Board of Harbor and Land Commissioners for dredging about 16,000 cu. yds., scow measurement, at South Boston flats. Lowest bidder was the Bay State Dredging Co., 185 Summer St., Boston, at 21¼ cts. per cu. yd.

*TUNNEL.—Chicago, Ill.—Contract has been awarded to GEO. W. JACKSON, Inc., Chicago, for construction of the Washington St. tunnel, Section 2, at $590,000. (Details given in advertisement in issue of Sept. 16.) Bids were received by the Chicago Rys. Co. on Sept. 22.

TILE DITCH.—Hastings, Ill.—Bids will be received until 10 a. m., Oct. 25, by the Commissioners of Little Vermilion Special Drainage District at office of Ray & Dobbins, Attys., Champaign, Ill., for furnishing, hauling, and for laying tile for ditch in this district at Hastings, Ill.

DITCH.—Sioux City, Iowa.—The Board of Supervisors has awarded to JOHN A. SWANSON, of Sioux City, the contract for increasing the capacity of what is known as lateral G of the Farmers' ditch, on his bid of 17 cents a cu. yd. About 16,000 cu. yds. of dirt will be excavated.

STEEL TOWER.—Wilmington, Del.—Contract has been awarded by the Light-House Engineer, Wilmington, for erecting a steel tower at Reedy Island Range, Rear Light Station, to the G. & W. MANUFACTURING CO., 26 Cortlandt St., New York, at $4,473. Bids were received on Sept. 27, as noted last week.

HOSE WAGON.—Winnipeg, Man.—Magnus Peterson, Secy. of the Civic Board of Control, will receive bids until 11 a. m., Nov. 1, for the supply of one motor hose wagon for the fire department, capable of carrying 2,000 ft. of 2½-in. rubber hose, weighing approximately 2,200 lbs., and six men, approximate weight 1,020 lbs.

DITCH.—Beecher, Ill.—Bids were received until Oct. 11 by Frank Hunte, Clk. Drainage Dist. No. 3, of the Town of Washington, at Beecher, for excavating and clearing out of the drainage ditch of Dist. No. 3, for a length of about 6¼ miles. Contract has been awarded to BAKER & KENNY, Hebron, Ind. Estimated cost, $9,000.

COPPER WORK.—Atlanta, Ga.—Bids are asked by R. V. LaDow, Supt. of Prisons, Dept. of Justice, Washington, D. C., until 10 a. m., Nov. 10, for furnishing and putting in place all copper work such as roof, gutters, ridge, and ventilators for three guard towers on the enclosing wall of the United States penitentiary at Atlanta.

SHELL.—Washington, D. C.—Bids were received as follows on Oct. 18 by the Chief of Ordnance, War Dept., Washington, for furnishing 6-inch cast-steel shell: Tredegar Co., Richmond, Va., $8.90 each; New Jersey Foundry & Machine Co., Jersey City, N. J., $9.75; Midvale Steel Co., Philadelphia, $16; Bethlehem Steel Co., South Bethlehem, Pa., $19.75.

SEAWALL, DREDGING.—Norfolk, Va.—Bids will be received until 11 a. m., Nov. 6, at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing a seawall and dredging navy yards at Norfolk as per Specification No. 1668. Appropriation available $65,000. Specifications are on file at office of Engineering News, New York.

DRY DOCK.—New York, N. Y.—Bids are asked until 1 p. m., Jan. 18, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for furnishing the labor and material necessary to complete the concrete and stone dry dock at the navy yard, New York, N. Y., now about 15% completed. Specifications may be seen at office of Engineering News, New York.

BULKHEAD.—Long Beach, Cal.—No bids were received by the Board of Public Works on Oct. 1 for finishing the uncompleted portion of the combined bulkhead and sidewalk with parapet of reinforced cement concrete on Seaside Boulevard, from Chestnut Ave. to Long Beach Harbor, a distance of 1½ miles. Cost of work complete, about $100,000. E. P. Dewey, City Engr.

DITCHES.—Sterling, Ill.—Bids were received on Oct. 8 by the Drainage Commissioners of Union Drainage Dist. No. 2, of the towns of Montmorency and Coloma, at the law office of Frank J. Bowman, Sterling, for deepening and enlarging ditches in this district. Contract was awarded to the JOHNSTON DITCHING CO., Sterling, at 8 cts. per cu. yd. Estimated quantity, 100,000 cu. yds.

PIER.—Duluth, Minn.—The Interstate Transfer Railway Co. has awarded a contract to the INTERSTATE DREDGE & DOCK CO. for the construction of the center pier for a transfer railway company's bridge across the St. Louis River, at Duluth. The contract also provides for the construction of the fenders. The AMERICAN BRIDGE CO. has contract for steel work on the structure.

PAINTING FIREBOATS.—New York, N. Y.—Bids received on Oct. 4, by Nicholas J. Hayes, Fire Comr, for furnishing all the labor and materials required for painting the hulls of the fireboats "William L. Strong," "C. W. Lawrence," and "Zophar Mills," Boros. of Manhattan and Richmond, were not accepted. Work will be readvertised when authorized by the Board of Estimate and Apportionment.

RIVER IMPROVEMENT.—Puyallup, Wash.—Bids were received by the city on Sept. 28 for improving Puyallup River in the vicinity of Puyallup, requiring about ten acres of clearing, 30,000 cu. yds. of excavation, 400 round piles, 2,000 cu. yds. stone, 126 M. ft. lumber, etc. Contract has been awarded to the WELLS TRACTION CO., 602 Bernice Bldg., Tacoma, at $17,000. A. O. Powell, Engr., 404 Central Bldg., Seattle.

BARGE CANAL.—Albany, N. Y.—The State Canal Board has approved Contract No. 33 of the Barge Canal construction work, which calls for the construction of lock gates, needle beams, guard and sluice gates, lock valves, etc., in connection with Contracts Nos. 2, 10, 11 and 15, located at Waterford, Fulton and Whitehall. The engineer's estimate of the cost of the work is about $183,000. F. S. Stevens is Supt. Public Works.

RIVER IMPROVEMENTS.—Des Moines, Iowa.—Bids were received on Sept. 29 by the City Council for improving the banks and channel of Des Moines River. Bids were submitted in three sections. Contracts have been awarded as follows: COOK CONSTRUCTION CO., Des Moines, reinforced concrete wall and levee, at $11,570; to the TURNER IMPROVEMENT CO., Des Moines, for stone, rip rap, levee, piling, willow facing, etc., $62,382.

TUNNEL WORK.—Tekoa, Wash.—The Chicago, Milwaukee & Puget Sound Ry. Co. has let to the SULLIVAN SUPPLY & IMPLEMENT CO., of Seattle, the contract for the construction of the concrete walls for the Sorrento tunnel, twelve miles east of Tekoa, work upon which will be commenced at once. This is a big contract, and it will require 100 men at least a year to complete it. The amount for which the contract was let has not been made public.

PIER, ETC.—Searsport, Me.—Contracts have been awarded for building the new pier and warehouse at Mack's Point, Searsport, for the Hubbard Fertilizer Co. of Baltimore. J. F. SPELLMAN of Bangor, Me., received the contract at $8,500 to build the pier, which will be 660 feet long. The contract for building the storehouse, which will be of frame construction, 110 by 170 feet, two stories, on concrete piers, has been awarded to GEORGE WAYMOUTH, of Stockton Springs, Me., at $10,700. The capacity of the plant will be for the handling of about 200 tons a day.

*CEMENT.—Vicksburg, Miss.—Bids were received as follows on Oct. 5 by Capt. Clarke S. Smith, Corps Engrs., U. S. A., Vicksburg, for furnishing 14,000 bbls. of Portland cement for use in construction of Locks and Dams Nos. 4 and 8, Ouachita River, La. and Ark.; (a) 7,000 to be delivered at Galion or Stark, Ark.; (b) 7,000 to be delivered on lock switch, Monroe, La. (price given per bbl.): Glencoe Lime & Cement Co., St. Louis, Mo., (a) $2.45 in wood, $2.10 in sacks; (b) $2.43 in wood, $2.07 in sacks (10 cts. for each sack not returned). United Kansas Portland Cement Co., Kansas City, Mo., (a) $1.67 in sacks; (b) $1.44 in sacks (10 cts. for each sack not returned). Atlas Portland Cement Co., 30 Broad St., New York, N. Y., (a) $2.44 in wood, $2.08 in sacks; (b) $1.88 in wood, (b) $1.55 in sacks (7½ cts. for each sack not returned).

*STEEL BARGES.—Vicksburg, Miss.—Bids were received as follows on Oct. 6 by Capt. Clarke S. Smith, Corps Engrs., U. S. A., for constructing and delivering steel barges price each for (a) two barges; (b) four barges:

The Springfield Boiler & Mfg. Co., Springfield, Ill., (a) $11,873; (b), $11,873. Time, 150 calendar days.

Nashville Bridge Co., Nashville, Tenn., (a) $12,500. Time, 200 calendar days.

The Johnson Iron Works, Ltd., P. O. Box 241, New Orleans, La., (a) $13,800; (b) $13,300. Time: (a) 110, (b) 170 calendar days. Specifications modified.

Chas. Hegewald Co., New Albany, Ind., (a) $15,939; (b) $15,939. Time: (a) 240, (b) 360 calendar days.

Clinton Ship Bldg. & Repair Co., foot of Tioga St., Philadelphia, Pa., (a) $16,000, (b) $16,000. Time: (a) 6 months, (b) 9 months. Bid informal.

American Bridge Co. of New York, 1461 Frick Bldg. Annex, Pittsburg, Pa., (a) $11,000; (b) $10,750. Alternate bid under modified plan, (a) $9,650; (b) $9,400. Time: (a) 210, (b) 240 calendar days.

MONUMENTS.—Ottawa, Ont.—Competitive designs are invited for two monuments, one to the memory of the late Hon. George Brown and the other to the memory of the late Hon. Thomas D'Arcy McGee. Each monument is not when completed and in position to cost more than $10,000, including pedestal from the level of the ground. The competition is open only to artists resident in Canada and artists of Canadian birth residing elsewhere. The site will be at a point in the Government property at Ottawa to be hereafter decided. Designs shall be in the form of sketch models, in plaster, made at a uniform scale of 1½ ins. to the foot. A description of the design shall accompany each model. No name, motto or other distinctive device is to be attached to the models or description. The competitor shall send his name in a sealed envelope without distinctive mark thereon. The author of the best designs will be awarded the commission of the work, the second best $500, and the third best $300. The models and all communications regarding this matter shall be addressed to Advisory Art Council, care Department of Public Works, Ottawa. The designs must be delivered before Feb. 1, 1910.

CONTRACT PRICES.

(denotes that this work is advertised in Engineering News.)*

*INTERCEPTING SEWER.—Kingston, N. Y.—Bids were received as follows on Sept. 28 by the Board of Water Supply, New York, for the construction of an intercepting sewer at Kingston. Bids in detail were as follows: King, Rice & Ganey Co., 280 Broadway, New York; (B) W. J. Gawne, Cleveland, Ohio; (C) Foye-Root Co., 20 Broad St., New York; (D) Fred. T. Ley & Co., Inc., 29 Broadway, New York, and Springfield, Mass.; (E) Haggerty Contracting Co., 2459 Davidson Ave., New York:

	(A)	(B)	(C)	(D)	(E)
60 lin. ft. shafts in earth	$60.00	$125.00	$50.00	$28.00	$193.50
160 lin. ft. shafts in rock	70.00	160.00	105.00	30.00	200.00
6,000 lin. ft. tunnel in rock	15.00	15.00	21.00	27.50	27.00
200 lin. ft. tunnel in earth	40.00	21.00	25.00	24.00	30.00
5,600 lin. ft. lining of tunnel in solid rock	2.25	2.85	2.50	2.20	4.00
600 lin. ft. lining of tunnel in earth and insecure rock	14.00	14.00	18.00	10.25	17.00
3,100 cu. yds. earth excavation & refilling trench	2.00	1.25	2.00	1.50	1.25
850 cu. yds. rock excavation & refilling trench	4.00	4.00	5.50	4.00	4.50
1,300 lin. ft. furnishing and laying 24" vitrified sewer pipe	1.00	1.25	2.50	1.60	1.50
12 lin. ft. furnishing and laying 24" c.-i. pipe	5.00	6.50	7.00	5.00	8.00
50 lin. ft. furnishing and laying 6" vitrified sewer pipe	.20	.50	.50	.25	1.00
6 manholes	50.00	50.00	125.00	125.00	80.00
70 cu. yds. concrete masonry	8.00	8.50	10.00	8.00	15.00
200 lin. ft. trimming in rock tunnel	5.00	10.00	3.00	3.00	3.00
Cleaning up (lump sum)	1.00	300.00	250.00	3,000.00	100.00
Total	$146,631	$163,858	$192,134	$209,862	$256,236

*RESERVOIRS.—Portland, Ore.—Bids in detail were received by the Water Board on Oct. 4 as follows for furnishing materials and labor for the construction of two reservoirs, Nos. 5 and 6, at Mt. Tabor, of approximately 125,000,000 gallons total capacity: (A) ROBERT WAKEFIELD & CO., Portland (awarded contract); (B) Northwest Bridge Works, Portland; (C) Pearson Construction Co., Portland; (D) Grant Smith & Co., Spokane, Wash.; (E) Celilo Construction Co., Portland; (F) United Engineering & Construction Co., Portland. Frank T. Dodge is Supt.; D. D. Clarke, Engr.:

	(A)	(B)	(C)	(D)	(E)	(F)
210,000 cu. yds. earth excavation	$0.43	$0.35	$0.64	$0.60	$0.425	$0.665
30,000 cu. yds. rolled embankment	.15	.25	.28	.10	.60	.475
19,500 cu. yds. replacing top soil	.50	.30	.53	.40	.60	.75
4,880 cu. yds. concrete, Class "A"	7.80	10.00	9.95	11.00	12.00	12.75
3,790 cu. yds. concrete, Class "B"	7.80	12.75	9.78	11.00	12.00	12.25
1,080 cu. yds. concrete, Class "C"	6.65	8.00	8.60	10.50	12.00	12.00
2,700 sqs. waterproofing	2.00	1.00	1.25	.30	1.00	3.50
1,700 sq. yds. concrete walk	1.50	1.50	1.10	1.00	1.10	1.50
435,000 lbs. steel reinforcement	.035	.04	.0425	.04	.06	.04
44,000 lbs. iron work, erection	.015	.015	.02	.015	.08	.025
240 tons pipe, setting	25.00	6.00	35.00	80.00	40.00	25.00
675 lin. ft. tunnel	25.00	45.00	19.00	20.00	25.00	30.00
Total, Reservoir No. 5	$226,068	$247,737	$293,883	$296,780	$296,615	$346,882
230,000 cu. yds. earth excavation	$0.30	$0.24	$0.45	$0.55	$0.35	$0.36
126,000 cu. yds. rolled embankment	.08	.20	.25	.10	.40	.22
5,000 cu. yds. replacing top soil	.50	.20	.45	.40	.60	.75
10,830 cu. yds. concrete, Class "A"	7.80	10.00	9.50	10.00	11.00	11.50
2,130 cu. yds. concrete, Class "B"	7.80	12.50	9.25	10.00	11.00	11.25
960 cu. yds. concrete, Class "C"	6.65	8.00	8.25	9.50	11.00	11.00
5,800 sqs. waterproofing	2.00	1.00	1.25	.30	1.00	3.50
2,700 sq yds. concrete walk	1.50	1.50	1.00	1.00	1.10	1.35
265,000 lbs. steel reinforcement	.035	.04	.04	.04	.05	.04
31,000 lbs. iron work, erection	.015	.015	.01⅛	.015	.08	.025
170 tons pipe, setting	25.00	6.00	32.00	80.00	30.00	25.00
Total, Reservoir No. 6	$218,692	$245,940	$294,329	$308,925	$316,620	$312,907
Total, Reservoirs Nos. 5 & 6	$444,760	$493,677	$588,212	$605,705	$613,235	$659,790

U. S. POSSESSIONS.

*DOCK.—Canal Zone.—The attention of steel and concrete contracting firms is called to the contemplated construction at Cristobal, Canal Zone, of a permanent steel and concrete dock 1,350 ft. long. **Information regarding the proposed construction of this dock may be had upon application to Assistant Purchasing Officer, Panama Railroad Co., 24 State St., New York City.**

STEEL CASTINGS, ETC.—Panama.—Bids will be received until Nov. 8, by Capt. F. C. Boggs, Corps Engrs., U. S. A., Genl. Purchasing Officer, Isthmian canal Comn., Washington, D. C., for steel castings, steel angles, sheet steel, bar iron, sheet iron, pipe fittings, copper tubing, copper wire, etc., as per Circular No. 539.

AIR COMPRESSORS.—Panama.—Bids were received as follows on Oct. 13, by the General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for furnishing two air compressors for use on the Canal work: Chicago Pneumatic Tool Co., Chicago, $14,232; 95 days shipment. Ingersoll-Rand Co., 11 Broadway, New York, $14,065, $16,582; 63 days. Laidlaw-Dunn-Gordon Co., 115 Broadway, New York, $13,130, $12,630; 80 days. Manning, Maxwell & Moore, 85 Liberty St., New York, $15,230; 180 days. Platt Iron Works Co., Dayton, Ohio, $15,200; 150 days.

*IRRIGATION WORK.—Porto Rico.—Bids will be received at the office of Porto Rico Irrigation Service, Dept. of the Interior, Guayama, P. R., until 2 p. m., Jan. 17, for construction of an earth and gravel dam, to be known as the Patillas Dam and appurtenant structures near Patillas, P. R., Estimated cost, $500,000. For other details see advertisement in this issue. Plans and specifications are on file at office of Engineering News, New York. (For contractors desiring to inspect the location of this work discounts have been arranged for with the steamship companies which will be of value to prospective bidders. The trip occupies 16 days, giving six days for inspection of local conditions.) B. M. Hall, Ch. Engr., Porto Rico Irrigation Service.

Further advertisement will be issued at a later date for proposals, to be opened at the same time and place as above, on the construction of about 6,000 ft. of rock tunneling in connection with this project. Opportunities will be afforded, at future dates, of bidding on the construction of additional dams and canals, estimated to cost about $1,200,000.

CROSS TIES.—Panama.—Bids were received as follows on Oct. 15, by the General Purchasing Officer, Isthmian Canal Commission, for furnishing 22,500 No. 1 cross-ties and 209,500 No. 2 ties, cypress, redwood, Douglas fir or long-leaf yellow pine:

G. S. Baxter & Co., 15 William St., New York, No. 1, 92 cts. each; No. 2, 87 cts. each; $202,965; alternates, $198,325, $198,825; cypress, delivered Colon, 35,000 in 30 days; 37,500 every 30 days.

W. R. Grace & Co., 614 California St., San Francisco, No. 1, 95 cts.; No. 2, 68 cts.; $163,835; Douglas fir, delivered Balboa, 30,000 to 45,000 in 40 days; 30,000 to 45,000 every 45 days.

Haviland Lumber Co., 50 Pine St., New York, No. 1, only, 88 cts.; cypress, delivered Colon in 60 days.

National Lumber & Box Co., Hoquiam, Wash., No. 1, $1; No. 2, 69 cts.; $167,055; alternate, $208,955; about 70,000 every 60 days; Douglas fir, delivered at Balboa.

S. E. Naylor & Co., Gulfport, Miss., No. 1, 88 cts.; No. 2, 65 cts.; alternate on No. 2, 80 cts.; yellow pine, delivered Colon; 30,000 in 30 days; 30,000 every 30 days.

Charles Nelson Co., San Francisco; fir, No. 1, 96 cts.; No. 2, 71 cts.; $170,345; redwood; No. 1, $1.29; No. 2, 81 cts.; delivered at Balboa; 30,000 in 60 days; 30,000 every 60 days thereafter.

EXAMINATIONS.

DRAINAGE ENGINEER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Nov. 24, to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Drainage Engineer, Department of Agriculture, at salaries ranging from $1,200 to $1,500 a year. Age limit, 21 years. Application form 1312.

INSPECTOR'S ASSISTANT.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Nov. 24, to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Inspector's Assistant (male), at $840 a year in the Bureau of Animal Industry, Department of Agriculture. Promotion to $1,000 a year is made after three years' satisfactory service at $840; promotion to $1,200 is made after three years' satisfactory service at $1,000 and after passing an examination for promotion. Age limit, 20 to 40 years. Application form 304.

MECHANICAL DRAFTSMAN. — Philadelphia, Pa.—The U. S. Civil Service Commission announces an examination on Nov. 22, 23, 24, to secure eligibles from which to make certification to fill a vacancy in the position of skilled Draftsman (experienced in instrument work) at the Frankford Arsenal, Philadelphia, Pa., at $1,400 per year, and vacancies as they may occur in the position of skilled Mechanical Draftsman in various ordnance establishments, at an entrance salary of $900 to $1,200 a year, according to the rating made by the eligibles in the examination, unless it shall be decided in the interests of the service to fill the specific vacancy mentioned by promotion, transfer, or reinstatement. Age limit, 18 years. Application form 1312. Applications must be filed prior to closing hour on Nov. 11.

EXAMINER OF ACCOUNTS.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Nov. 22-24, to secure eligibles from which to make certifications for the appointment of Examiners and Clerks in the Bureau of Statistics and Accounts, Interstate Commerce Commission. The eligibles obtained from this examination will be classified in three general groups with salaries ranging as follows: Group A, Examiners, $2,220 to $3,000; Group B, Examiners, $1,860 to $2,100; Group C, Clerks, $1,200 to $1,620. If a sufficient number of high-grade eligibles is obtained, it is expected that there will be appointed approximately five from Group A, fifty from Group B, and fifty from Group C. Age limit, 21 to 48 years. The duties of examiners will require extended absence from headquarters, and traveling expenses will be allowed while on duty away from Washington or other official headquarters. In view of the importance of these positions, rigid examination will be made of the special fitness of all applicants, and only those who have submitted prima facie evidence of having had the training and experience required for positions under any of the groups will be admitted to the examination. Application Form 304.

INDUSTRIAL NOTES.

M. L. NEWMAN & CO., Consulting and Industrial Engineers, announce that they have moved their office from 25 Broad St. to the United States Express Bldg., at 2 Rector St., New York City.

MR. JAMES E. BOUGH has withdrawn from the firm of A. V. Kaiser & Co., Philadelphia, where he had an interest and was manager for the past ten years. He, has commenced business under the firm heading of Pennsylvania Equipment Co., 1209 West End Trust Bldg., Philadelphia, and will deal in railroad and contractors' equipment; also machinery, new and second-hand, of all kinds.

MR. R. S. DE MITKIEWICZ, member of the gas power section of the American Society of Mechanical Engineers, formerly with The Fairbanks Company in gas power work, has become connected with the Alden Sampson Manufacturing Co., of Pittsfield, Mass., manufacturers of motor trucks and gas-electric road trains. Mr. de Mitkiewicz will be associated with the New York office at 115 Broadway as power sales engineer in mechanical transportation.

THE OHIO HOME TELEPHONE CO. was incorporated at Columbus, Ohio, on Oct. 15, with a capitalization of $500,000. This concern is organized for the immediate purpose of leasing the United States Telephone Co., which operates the lines connecting several independent companies. The ultimate purpose is said to be a merger of all companies in Ohio independent of the Bell association.

A TYPE NO. 1 full circle swing steam shovel has been received by the Pacific Division of the Panama Canal, and as soon as it is set up at the Empire shops, will be used in the work of excavating the trenches for the culvert system at the Pedro Miguel Locks. It was manufactured by the Thew Automatic Shovel Co., of Lorain, Ohio, and in general appearance resembles a locomotive crane, for which it can be used. It can also be used for handling clam-shell buckets when equipped with a special boom with a derricking motion. It is mounted on car wheels and is self-propelling, although traction wheels can be used when desired. The machinery is so arranged that the operator can do his own firing, provided only a limited output is required.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56, of Advertisements and Construction News page 148.

IRRIGATION WORK.

DEPARTMENT OF THE INTERIOR.
OFFICE OF PORTO RICO IRRIGATION SERVICE.

Guayama, Porto Rico, Sept. 28, 1909.

Sealed proposals will be received at this office until 2 o'clock P. M. January 17, 1910, for the construction of an earth and gravel dam, to be known as the Patillas Dam and Appurtenant Structures, near the town of Patillas, Porto Rico, requiring the excavation of about 726,000 cubic meters of earth, rock and gravel, and the placing of about 2,900 cubic meters of concrete. The estimated cost is about $500,000. Plans and specifications may be obtained from this office; or from the Commissioner of the Interior, San Juan, Porto Rico; or from the U. S. Reclamation Service, Washington, D. C. A deposit of $2.00 is required for the plans, which deposit will be refunded on the return of plans prior to the date set for opening the bids. The right is reserved to reject any and all bids.

B. M. HALL,
Chief Engineer,
Porto Rico Irrigation Service.
By order of
L. H. GRAHAME,
Commissioner of the
Interior of Porto Rico.

Plans and specifications for this work are on file at the office of Engineering News, New York.

Further advertisement will be issued at a later date for proposals, to be opened at the same time and place as above, on the construction of about 6,000 feet of rock tunneling in connection with this project.

Opportunities will be afforded, at future dates, of bidding on the construction of additional dams and canals, estimated to cost about $1,200,000.

PUMPS AND MOTORS.

Spokane, Wash.

Sealed proposals will be received by the Board of Public Works of the City of Spokane, Washington, until 2 o'clock p. m., Friday, November 5th, 1909, for the following equipment, plans and specifications for which are on file with the Board of Public Works.

Bids must be submitted in duplicate; one copy addressed to the Mayor, and one to the Board of Public Works; the copy filed with the Board of Public Works must be accompanied by a certified check for ten per cent. of the amount of the bid submitted.

EQUIPMENT.

Three 7,500,000-gallon multi-stage centrifugal pumps.

Three induction motors, switchboard, and connections.

By order of the Board of Public Works.
GEO. W. ARMSTRONG,
Secretary.

SEWERAGE PUMPING STATION.

Woodside, L. I.

Bids will be received for the construction of a pumping station, and the laying of about 3,000 ft. of 10" cast-iron pressure main, and about 900 ft. of 15" vitrified sewer pipe. For plans and specifications, and other information, apply to the WOODSIDE HEIGHTS LAND CORPORATION, No. 1123 Broadway, New York City.

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